

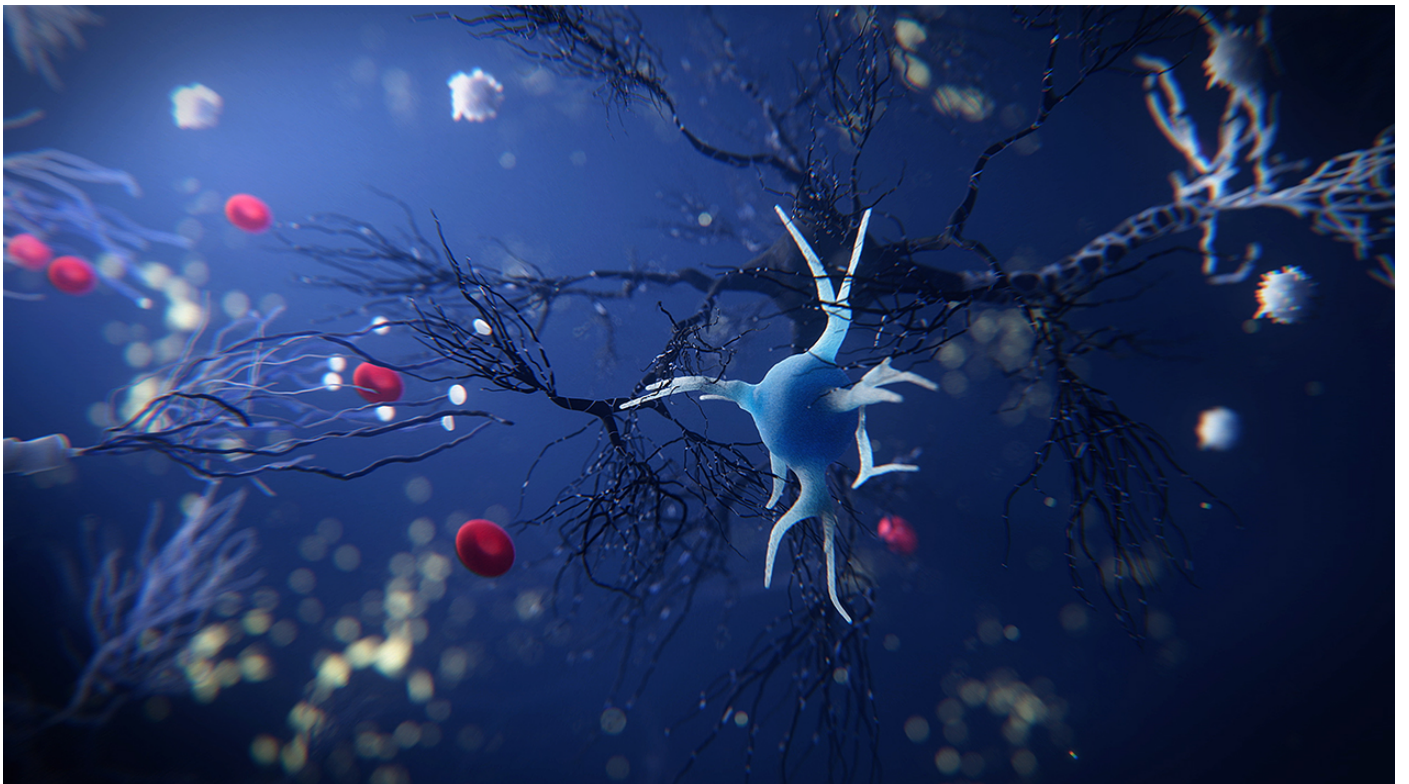
SYSY – HistoSure

SYSY

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SYSY CNS COVID-19 (Tohidpour et al., 2017) PRRs PAMPs LPS DAMPs ATP PRRs (Chaney et al., 2021) α - β



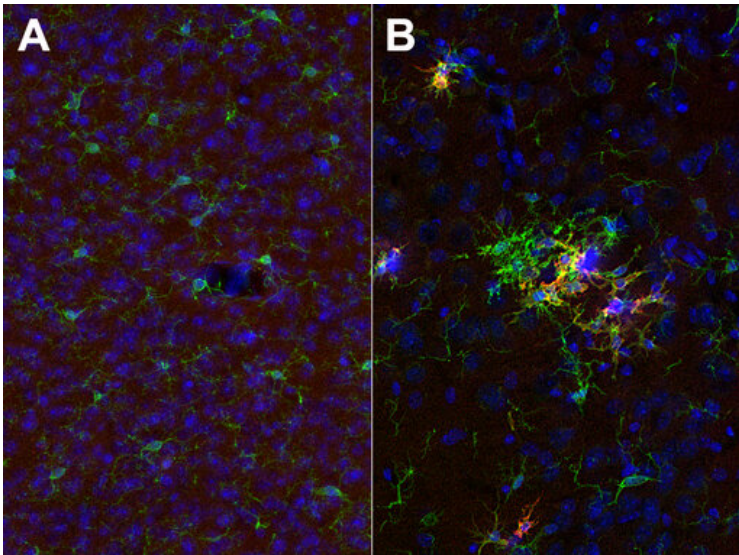
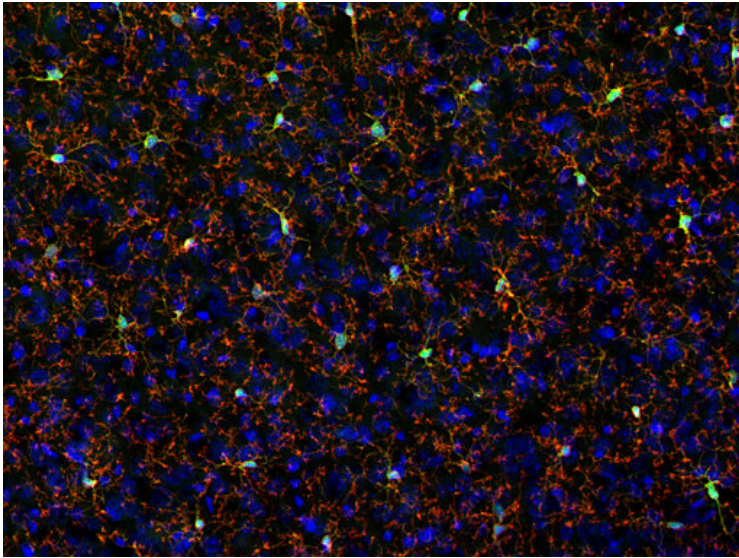
1 CNS

SYSY

BAMs M1 M2 M1 M2 A1/A2

10% (Webers et al., 2020) 20% (Troncoso-Escudero et al., 2018)

CCR α (Jurga et al., 2020; Prinz et al., 2021; Dermitzakis et al., 2023)
 PAMPs DAMPs (TNF- α) IL-1 β IL-6 IL-12 IL-18 (IFN- γ) iNOS MCP-1 IL-4 IL-10 IL-13 β TGF- β (Angiulli et al., 2021)



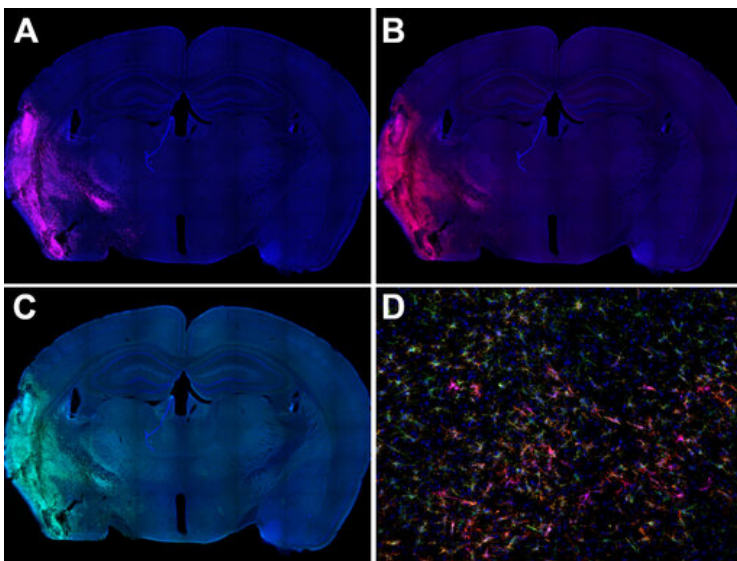
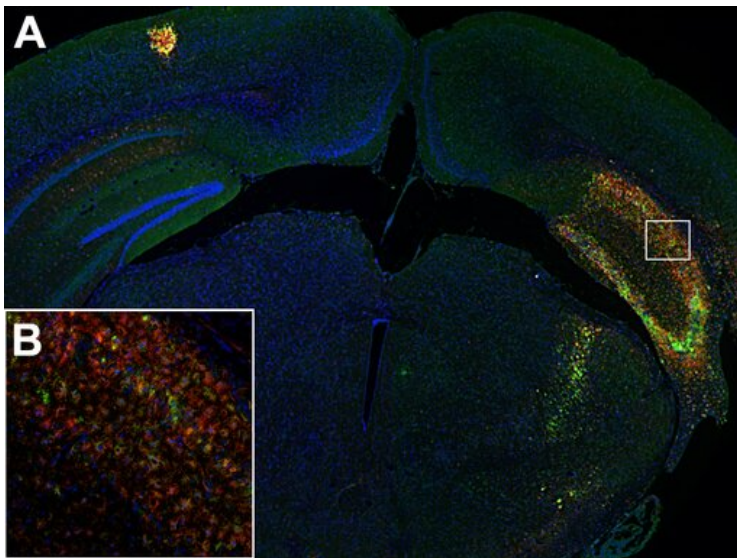
2 P2Y12 (cat. 476 011, 1:2000) IBA1 (cat. no. 234 308, 1:500) PFAB4 DAPI

3 CD11c (cat. no. HS-375 004, 1:1000) IBA1 (cat. no. HS-234 013, 1:1000) PFAB4 B220 CD11c CD86 CD4 CD11b IBA1 CD68 F4/80 3 5 DAPI

P2Y12 CX3CR1 HexB TMEM119 CD11c CD86 CD4 CD11b IBA1 CD68 F4/80 3 5 (Benmamar-Badel et al., 2020, Jurga et al., 2020, Almolda et al., 2015, Garcia-Revilla et al., 2022)

(Lima et al., 2022)

“DAM” (Finger et al., 2022)



4 [A](#) [CD86](#) [CD11b](#) [B](#) [CD86](#) ([cat. no. HS-466 003](#), 1:600, [CD11b](#) [cat. no. HS-384 117](#), 1:250, [MCAO](#) 14 [DAPI](#)

5 [3](#) [CD11b](#) [A](#) [3](#) [cat. no. HS-477 017](#), 1:500 [B](#) [CD11b](#) [cat. no. HS-384 008](#), 1:500, [C](#): [IBA1](#) [cat. no. 234 308](#), 1:500, [PFA](#) 14 [D](#) [IBA1](#) [CD11b](#) / [3](#) [DAPI](#)

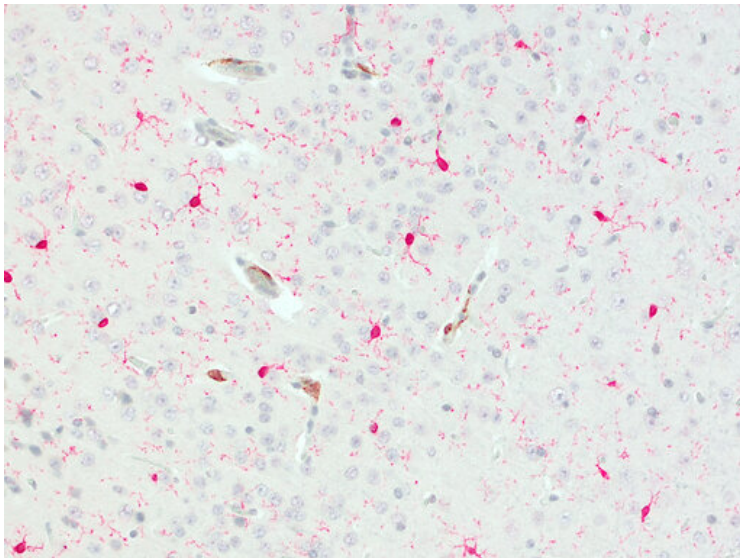
Products microglia in inflammation

Cat. No.	Product Description	Application	Quantity	Price	Cart
HS-384 008 HistoSure	CD11b, rabbit, recombinant IgG <i>mouse specific</i>	WB IHC IHC-P IHC-Fr	100 µl	US\$420.00	
HS-384 017 HistoSure	CD11b, rat, IgG <i>human specific</i>	WB IHC-P	200 µl	US\$420.00	
HS-384 018 HistoSure	CD11b, rabbit, recombinant IgG <i>human specific</i>	WB IHC-P IHC-Fr	100 µl	US\$420.00	
HS-384 103 HistoSure	CD11b, rabbit, affinity <i>mouse specific</i>	WB ICC IHC IHC-P	200 µl	US\$455.00	
HS-384 117 HistoSure	CD11b, rat, IgG <i>mouse specific</i>	WB IHC IHC-P IHC-Fr	200 µl	US\$420.00	
HS-384 117BT HistoSure	CD11b, rat, IgG, biotin <i>mouse specific</i>	WB IHC-P	100 µg	US\$470.00	

HS-384 308 HistoSure 375-0P	CD11b, Guinea pig, recombinant IgG <i>mouse specific</i>	WB IHC IHC-P IHC-Fr	100 µl	US\$420.00
HS-375 003 HistoSure HS-375 003	CD11c, control peptide		100 µg	US\$110.00
HS-375 004 HistoSure HS-375 004	CD11c, rabbit, affinity <i>mouse specific</i>	WB IHC IHC-P	200 µl	US\$375.00
HS-375 008 HistoSure HS-375 013	CD11c, Guinea pig, antiserum <i>mouse specific</i>	WB IHC IHC-P	100 µl	US\$355.00
HS-375 017 HistoSure HS-460 003	CD11c, rabbit, recombinant IgG <i>mouse specific</i>	IHC IHC-P	50 µg	US\$420.00
HS-460 004 HistoSure	CD11c, rabbit, affinity	WB IHC IHC-P	50 µg	US\$375.00
HS-460 004 HistoSure	CD11c, rat, IgG <i>mouse specific</i>	IHC IHC-P IHC-Fr	100 µg	US\$420.00
HS-460 004 HistoSure	CD68, rabbit, affinity	WB IHC IHC-P	50 µg	US\$375.00
HS-460 004 HistoSure	CD68, Guinea pig, antiserum	IHC IHC-P	100 µl	US\$355.00

Result count: 57

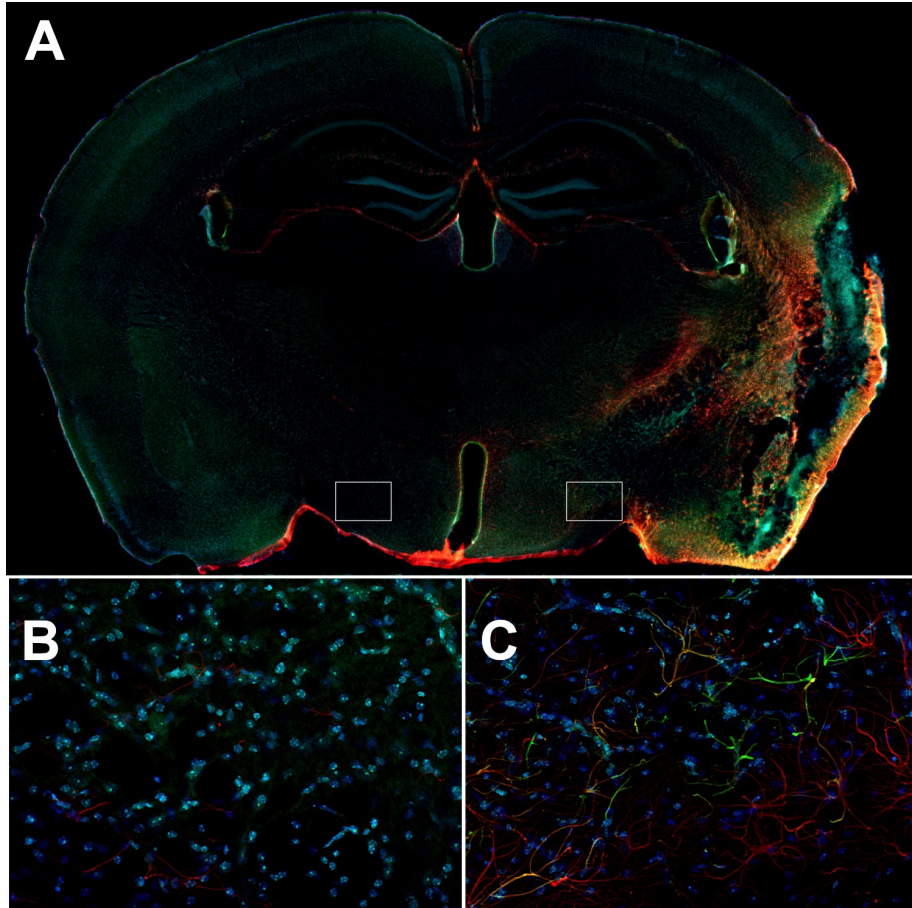
BAMs CNS PNS
 (Mildenberg, 2022)
 BAMs CD206+ CD206 BAMs
 BAMs CNS/PNS
 BAMs CD206 CD163 CD7
 BAMs αM (CD11b) IBA1
 Csf1R F4/80 (Gerganova, 2022)



Result count: 29

50% (Alghamri et al., 2021) (Chiareli et al., 2021)

GFAP (Singh, 2022) (S100B (Higashino et al., 2009) ALDOC (Haddadi et al., 2022) EAAT1, GLAST (Beschoner et al., 2007) GS (Sandhu et al., 2021) Aβ (Chiarini, 2020) EAAT2 (Dahlmanns et al., 2023) (Reid and Kuipers, 2021; Rothhammer and Quintana, 2015)



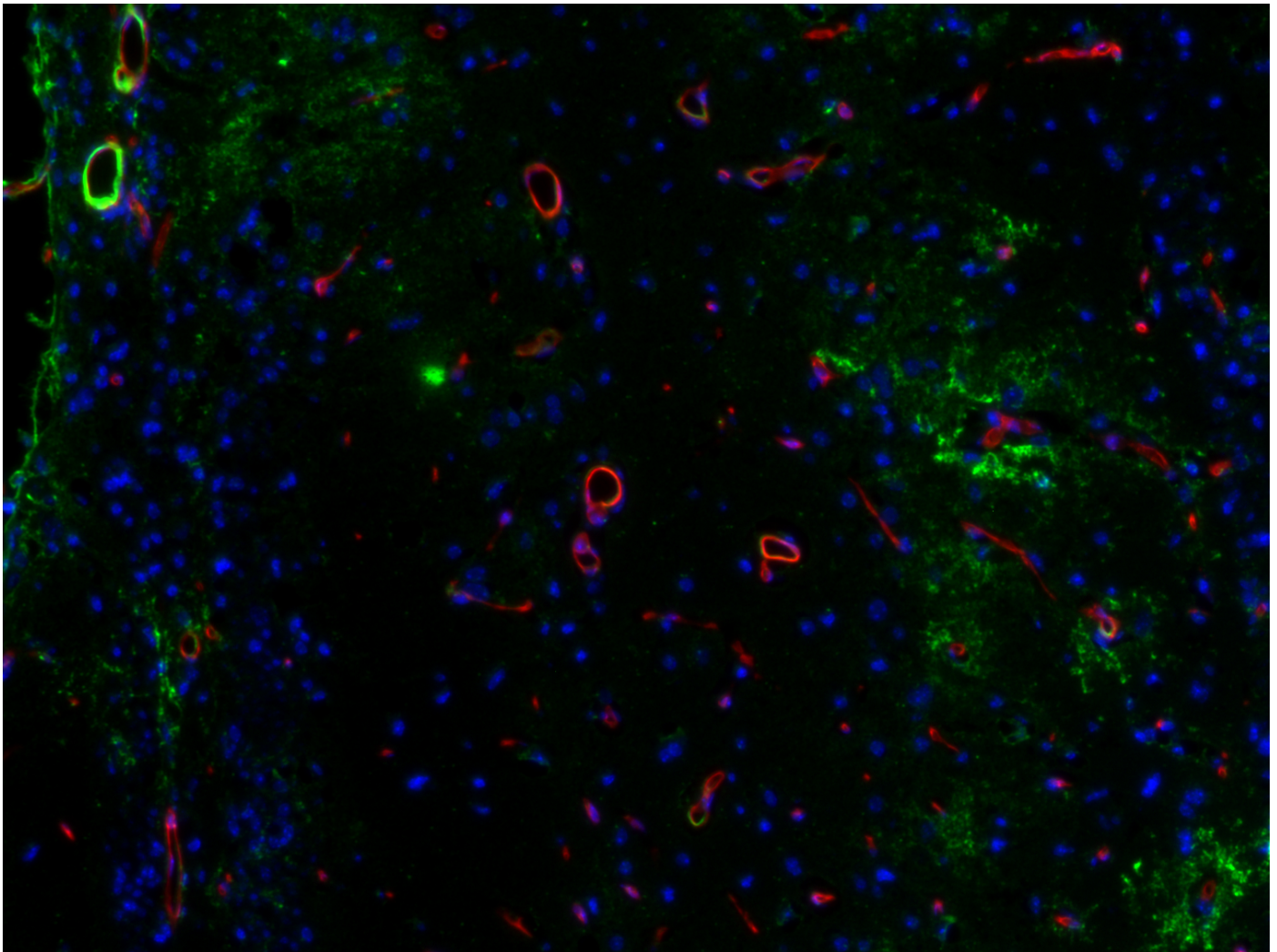
8 GFAP (cat. no. 173 208, 1:500,) - (cat. no. 172 004, 1:500,) PFA MCAO 14 B GFAP C DAPI

(Chiareli et al., 2021)

(Kölliker-Frers et al., 2021) CXCL10 CCL2 CXCR2 CCL3 IL-4 IL-6 IL-10 IL-12 OPCs NG2 (Psenicka et al., 2021, Poggi et al., 2023)

Products Astrocytes & Oligodendrocytes in inflammation

Cat. No.	Product Description	Application	Quantity	Price	Cart
464 004	Aldolase C, Guinea pig, antiserum	WB ICC IHC	100 µl	US\$370.00	



12 VCAM1 (cat. no. HS-470 004, 1:750) CD31 (cat. no. HS-351 117, 1:1500) DAPI

Products Blood-brain-barrier (BBB) in inflammation

Cat. No.	Product Description	Application	Quantity	Price	Cart
429 004	Aquaporin4, Guinea pig, antiserum	WB IP ICC IHC IHC-P	100 µl	US\$375.00	
429 006	Aquaporin4, chicken, affinity	ICC IHC	50 µg	US\$385.00	
429 008	Aquaporin4, rabbit, recombinant IgG	IP ICC IHC IHC-P IHC-Fr IHC-G	50 µg	US\$420.00	
429 009	Aquaporin4, chicken, recombinant IgY	IP ICC IHC IHC-P IHC-Fr	50 µg	US\$420.00	
429 011	Aquaporin4, mouse, IgG	IP ICC IHC IHC-P IHC-Fr	100 µg	US\$420.00	
429 011BT	Aquaporin4, mouse, IgG, biotin	ICC IHC IHC-P	100 µg	US\$485.00	
429-0P	Aquaporin4, control protein		100 µg	US\$110.00	
161 002	Caveolin1, rabbit, antiserum	WB IP	200 µl	US\$360.00	
161 003	Caveolin1, rabbit, affinity	WB IP ICC IHC IHC-P IHC-Fr IHC-G	50 µg	US\$460.00	
161 011	Caveolin1, mouse, IgG	WB ICC IHC IHC-P IHC-Fr IHC-G	100 µg	US\$420.00	
161-0P	Caveolin1, control peptide		100 µg	US\$110.00	
351 004	CD31, Guinea pig, antiserum discontinued, replacement: HS-351 004	WB ICC IHC-P	100 µl		
351 011	CD31, mouse, IgG	ICC FACS	100 µg	US\$420.00	






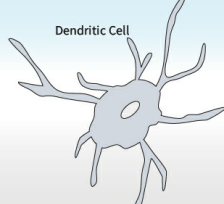
HS-351 004	CD31, Guinea pig, antiserum	WB ICC IHC IHC-P iDISCO	100 µl	US\$355.00
HistoSure	<i>human specific</i>			
HS-351 008	CD31, rabbit, recombinant IgG	WB IHC IHC-P	50 µg	US\$420.00
HistoSure	<i>mouse specific</i>			

Result count: 27

CD31

CD31 (PECAM-1) is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Marchetti and Engelhardt, 2020)

Cell Types

<p>Local NETs formation protects from bacterial attack</p> <p>Cytokine/protease secretion</p> <p>positive effects</p> <p>Neutrophil</p>  <p>negative effects</p> <p>NETs exert neurotoxic effects BBB breakdown</p>	<p>Induction of antigen-specific T cell proliferation</p> <p>Debris clearance</p> <p>Tissue repair</p> <p>Monocyte/ Macrophage</p>  <p>Inflammatory damage</p>	<p>CD4+ helper T cells promote immunoregulation and neutrophil recruitment</p> <p>CD8+ cytotoxic T cells destroy infected or damaged cells and cancer cells</p> <p>Tregs promote immunosuppression</p> <p>T-Cell</p>  <p>Cytotoxicity</p>	<p>Recognize and attack „non-self“ cells including cancer cells</p> <p>Protective function</p> <p>NK-Cell</p>  <p>Cytotoxicity</p>	<p>Immunological memory</p> <p>Protective function through antibody production</p> <p>B-Cell</p>  <p>Secreted antibodies can provoke autoimmune diseases</p>	<p>Antigen presentation</p> <p>T cell activation</p> <p>Dendritic Cell</p>  <p>Can function as „Trojan horse“ during virus CNS entry</p>
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CD31

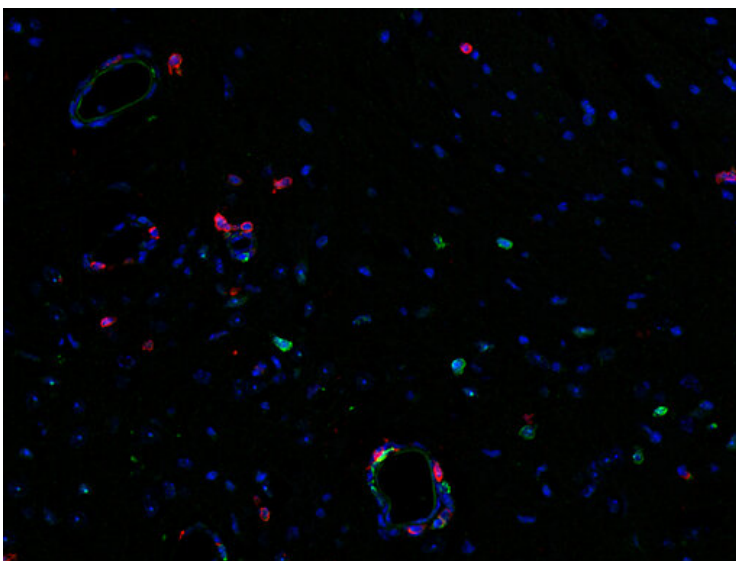
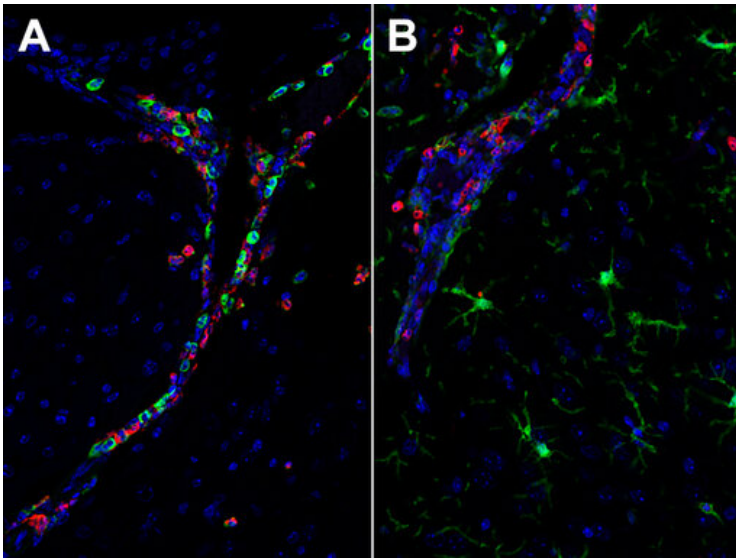
CD31 is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Kang et al., 2022)

CD31 is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Manda-Handzlik et al., 2019)

CD31 is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Manda-Handzlik et al., 2019)

CD31 is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Smolders et al., 2018)

CD31 is a cell adhesion molecule that is expressed on endothelial cells and platelets. It is a member of the immunoglobulin superfamily and is involved in cell-cell interactions and signaling. CD31 is a marker for endothelial cells and is used in immunohistochemistry to identify these cells in tissue sections. (Pasciuto et al., 2020)



14 Chil3YM-1A-Chil3 (cat. no. HS-442 017, 1:1500,)-CD45 (cat. no. HS-427 008, 1:2000,)-Chil3 (cat. no. HS-442 017, 1:1500,)-IBA1 (cat. no. HS-234 008, 1:2000,)SARS-CoV2K18-hACE2DAPI

15 CD4TCD8T-CD4 (cat. no. HS-360 117, 1:200,)-CD8a (cat. no. HS-361 003, 1:250,)DAPI

MDMsCCR2-MDMsMHCII-MDMsT(Chang et al., 2021)MDMs(Spiteri et al., 2022)

CD11c-1%IFN-T(Constant et al., 2022)moDCsAPCs(Giles et al., 2018)

B-CD19CD20B-B(Jain et al., 2021)BMS(Ahn et al., 2021)

[NK cell](#) [ILC](#) [ILC1](#) [ILC2](#) [ILC3](#) [NK cell](#) [ILC1](#) [NK cell](#) [BM](#) [NK cell](#) [Wang et al., 2023](#) [NK cell](#) [NK cell](#) [Liu et al., 2021](#) [NK cell](#) [Hao et al., 2010](#)

Products infiltrating peripheral immune cells

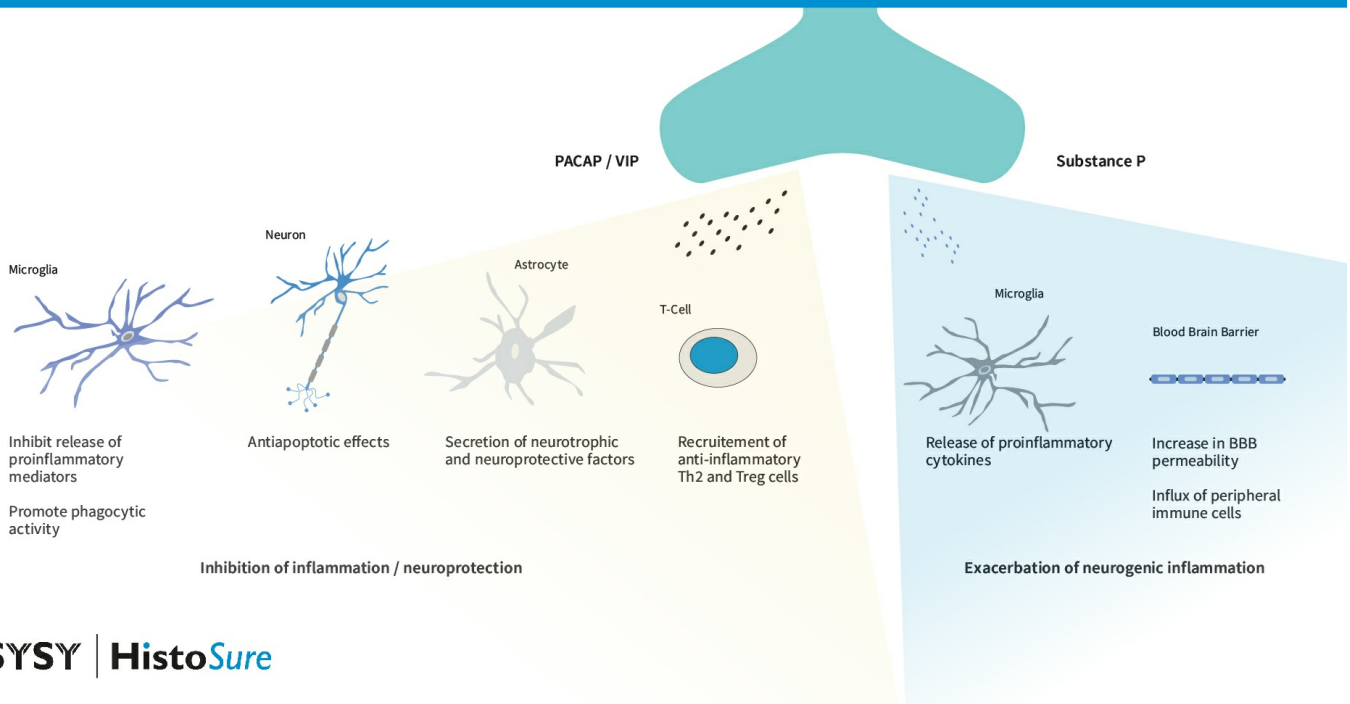
Cat. No.	Product Description	Application	Quantity	Price	Cart
375-0P HistoSure	CD11c, control peptide		100 µg	US\$110.00	
HS-375 003 HistoSure	CD11c, rabbit, affinity <i>mouse specific</i>	WB IHC IHC-P	200 µl	US\$375.00	
HS-375 004 HistoSure	CD11c, Guinea pig, antiserum <i>mouse specific</i>	WB IHC IHC-P	100 µl	US\$355.00	
HS-375 008 HistoSure	CD11c, rabbit, recombinant IgG <i>mouse specific</i>	IHC IHC-P	50 µg	US\$420.00	
HS-375 013 HistoSure	CD11c, rabbit, affinity	WB IHC IHC-P	50 µg	US\$375.00	
HS-375 017 HistoSure	CD11c, rat, IgG <i>mouse specific</i>	IHC IHC-P IHC-Fr	100 µg	US\$420.00	
HS-439 003 HistoSure	CD19, rabbit, affinity <i>mouse specific</i>	WB ICC IHC IHC-P	200 µl	US\$375.00	
HS-439 008 HistoSure	CD19, rabbit, recombinant IgG <i>mouse specific</i>	IHC IHC-P IHC-Fr	50 µg	US\$420.00	
HS-439 017 HistoSure	CD19, rat, IgG <i>mouse specific</i>	WB IHC IHC-P IHC-Fr	100 µg	US\$420.00	
HS-439 103 HistoSure	CD19, rabbit, affinity <i>human specific</i>	WB IHC-P	50 µg	US\$375.00	
HS-439 108 HistoSure	CD19, rabbit, recombinant IgG <i>human specific</i>	WB IHC-P	50 µg	US\$420.00	
HS-439 117 HistoSure	CD19, rat, affinity <i>human specific</i>	IHC-P	100 µg	US\$420.00	
HS-360 004 HistoSure	CD4, Guinea pig, antiserum <i>mouse specific</i>	WB IHC IHC-P	100 µl	US\$355.00	
HS-360 017 HistoSure	CD4, rat, IgG discontinued, replacement: HS-360 117 <i>mouse specific</i>	IHC IHC-P	200 µl		
HS-360 108 HistoSure	CD4, rabbit, recombinant IgG <i>mouse specific</i>	WB IHC IHC-P IHC-Fr	100 µl	US\$420.00	

Result count: 43

NYRYVIPPACAPVIPVIPMS

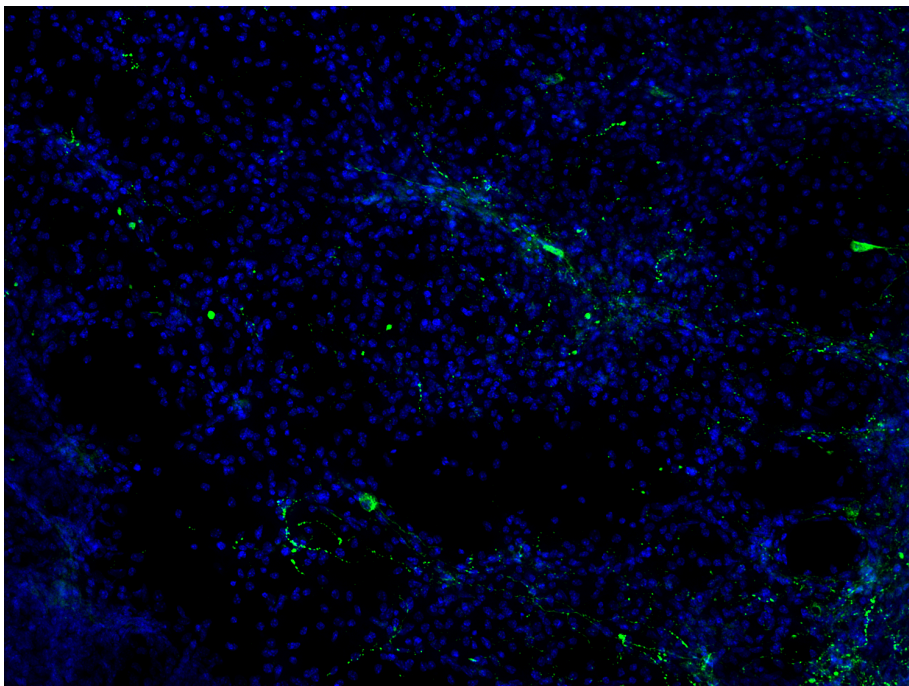
[Yeo et al., 2022](#) [16](#) [CD4](#) [CD8T](#) [VIP](#) [MS](#) [Ganea et al., 2015](#); [Martinez et al., 2019](#) [VIP](#) [PACAP](#) [PACA](#) [Figueiredo et al., 2022](#)

Immunomodulatory Roles of Neuropeptides in the Brain



16 PACAP/VIP

CRH
 NPY
 Aβ
 AD
 CGRP
 Carr and Frings, 2019



17 NPY
 NPY
 cat. no. 394 006, 1:500, PFA
 MCAO14
 DAPI

Products neuropeptides in inflammation



429 011	Aquaporin4, mouse, IgG	IP ICC IHC IHC-P IHC-Fr	100 µg	US\$420.00
429 011BT	Aquaporin4, mouse, IgG, biotin	ICC IHC IHC-P	100 µg	US\$485.00
429-0P	Aquaporin4, control protein		100 µg	US\$110.00
HS-500 003	Arg-1, rabbit, affinity	WB IHC IHC-P	50 µg	US\$375.00
HistoSure	<i>C-terminal</i>			
HS-500 013	Arg-1, rabbit, affinity	WB IHC IHC-P	50 µg	US\$375.00
HistoSure	<i>N-terminal</i>			
HS-500 023	Arg-1, rabbit, affinity	WB IHC-P	50 µg	US\$375.00
HistoSure				
161 002	Caveolin1, rabbit, antiserum	WB IP	200 µl	US\$360.00
161 003	Caveolin1, rabbit, affinity	WB IP ICC IHC IHC-P IHC-Fr IHC-G	50 µg	US\$460.00
161 011	Caveolin1, mouse, IgG	WB ICC IHC IHC-P IHC-Fr IHC-G	100 µg	US\$420.00
161-0P	Caveolin1, control peptide		100 µg	US\$110.00

Result count: 176

Christel Bonnas Roser Ufartes

Christel Roser HistoSure



✂ ✂ ✂

Ahn et al., 2021. B Cells in Neuroinflammation: New Perspectives and Mechanistic Insights. [PMID: 34206848](#)

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- Dahlmanns et al., 2023. Glial Glutamate Transporter-Mediated Plasticity: System xc⁻/xCT/SLC7A11 and EAAT1/2 in Brain Diseases. [PMID: 37005761](#)
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- Gerganova et al., 2022. CNS border-associated macrophages in the homeostatic and ischaemic brain. [PMID: 35667516](#)
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- Hao et al., 2010. Central nervous system (CNS)-resident natural killer cells suppress Th17 responses and CNS autoimmune pathology. [PMID: 20696699](#)
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