

Monoclonal Mouse IgG<sub>1</sub> Clone # 840727 Catalog Number: MAB5145

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Caspr2 in direct ELISAs.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 840727	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Caspr2 Pro29-Ala1262 Accession # Q9UHC6	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 μg/10 <sup>6</sup> cells	See Below
CyTOF-ready	Ready to be labeled us with conjugation.	ing established conjugation methods. No BSA or other carrier proteins that could interfere

## DATA

Flow Cytometry			
	Detection of Caspr2 in HEK293 Human Cell Line Transfected with Human Caspr2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human Caspr2 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human Caspr2 Monoclonal Antibody (Catalog # MAB5145) followed by APC-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.		
PREPARATION AND S	TORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>		
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>		
	<ul> <li>6 months 20 to 70 °C under starile conditions ofter reconstitution</li> </ul>		

6 months, -20 to -70 °C under sterile conditions after reconstitution

## BACKGROUND

Caspr2 (CNTNAP2, Contactin-associated protein-like 2 and Cell recognition molecule Caspr2) is a 160-170 kDa glycoprotein, a member of the neurexin family of proteins. It is predominantly expressed in nervous system and likely play a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Seems to demarcate the juxtaparanodal region of the axo-glial junction. Caspr2 and closely related molecule Caspr/Paranodin demarcate distinct subdomains in myelinated axons. While contactin-associated protein (Caspr) is present at the paranodal junctions, Caspr2 is precisely colocalized with Shaker-like K+ channels in the juxtaparanodal region. Over aa 29-1262, human CASPR2 shares 94% aa sequence identity with mouse Caspr2.

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