

DESCRIPTION

Target:	PMP22
Target aliases:	Peripheral Myelin Protein 22, Gas3, HMSNIA, Sp110, HNPP
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag ¹ , disabled Fc- γ receptor binding ²
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

PMP22 TARGET INFORMATION

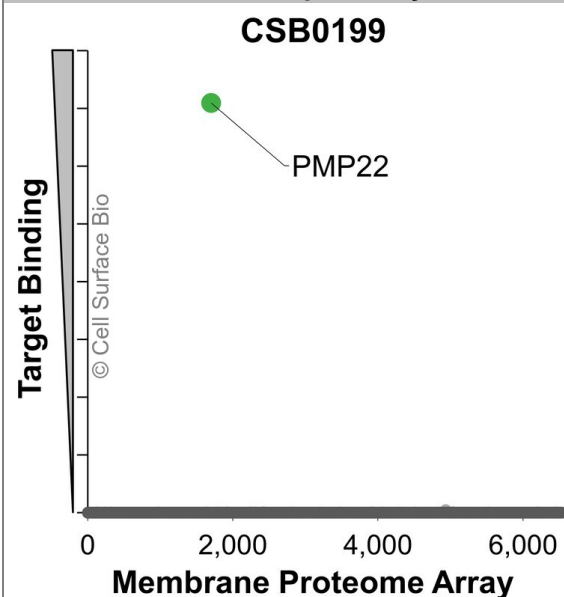
Peripheral myelin protein 22 is a member of the PMP-22/EMP/MP20/Claudin superfamily of tetra-span integral membrane proteins. The protein contains four transmembrane helices with two extracellular loops and cytoplasmic N- and C-termini and is localized to compact myelin in the peripheral nervous system. PMP22 is produced by Schwann cells and contributes to myelin sheath structure and stability. Expression data indicate predominant enrichment in peripheral nerve tissue. (NCBI Gene: 5376, UniProtKB/Swiss-Prot: Q01453) Other names: Peripheral Myelin Protein 22, Gas3, HMSNIA, Sp110, HNPP

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

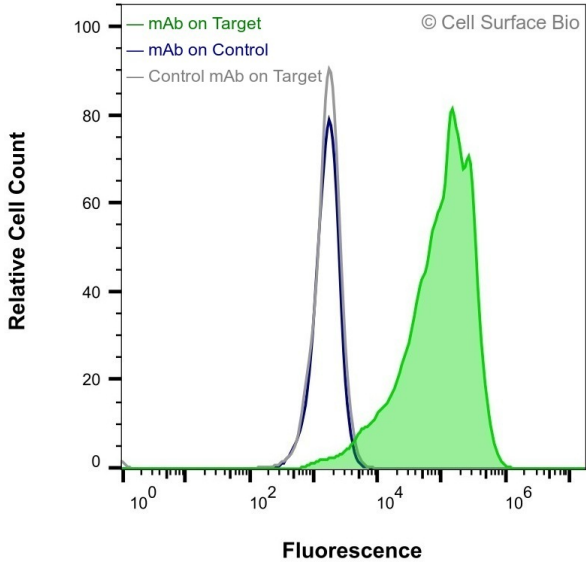
Membrane Proteome Specificity



The specificity of PMP22 Monoclonal Antibody (CSB0199) was tested on the Membrane Proteome Array™ and shown to be specific for PMP22.

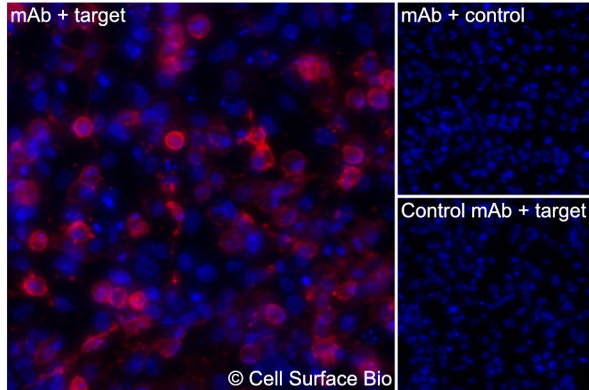
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



JS-1 cells transiently transfected with PMP22 were stained with PMP22 Monoclonal Antibody (CSB0199) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with PMP22 Monoclonal Antibody (CSB0199) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



(Left) JS-1 cells transiently transfected PMP22 were stained with PMP22 Monoclonal Antibody (CSB0199) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with PMP22 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with PMP22 and stained with control MAb.

Applications

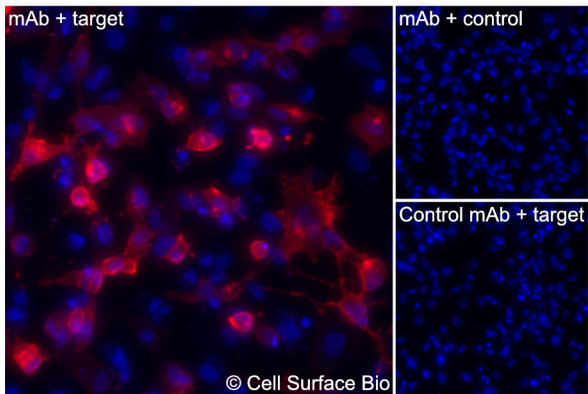
Immunofluorescence, Intracellular

Conditions

Fixed 4% paraformaldehyde,
Permeabilized 0.1% Triton X-100

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected PMP22 were permeabilized and stained with PMP22 Monoclonal Antibody (CSB0199) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with PMP22 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.