

DESCRIPTION

Target:	PERP
Target aliases:	PIGPC1, TP53 apoptosis effector, P53 Apoptosis Effector Related To PMP22, KRTCAP1, KCP1, THW
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

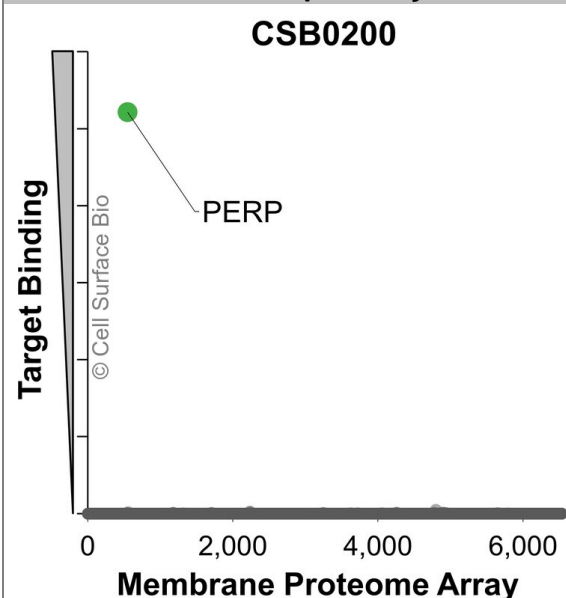
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

PERP TARGET INFORMATION

PERP apoptosis effector is a tetra-span integral membrane protein belonging to the PMP-22/EMP/MP20/Claudin superfamily. The protein contains four transmembrane helices with cytoplasmic N- and C-termini and localizes to the plasma membrane, where it associates with desmosomal complexes. PERP is a transcriptional target of TP53 and TP63 and contributes to epithelial cell-cell adhesion and regulation of apoptosis. Expression is detected in epithelial tissues, consistent with its role in maintaining desmosome integrity. (NCBI Gene: 64065, UniProtKB/Swiss-Prot: Q96FX8) Other names: PIGPC1, TP53 apoptosis effector, P53 Apoptosis Effector Related To PMP22, KRTCAP1, KCP1, THW

SHIPPING AND STORAGE

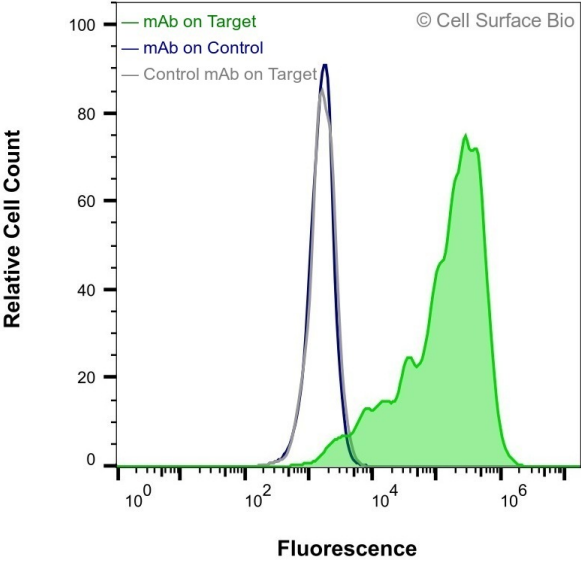
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of PERP Monoclonal Antibody (CSB0200) was tested on the Membrane Proteome Array™ and shown to be specific for human PERP.

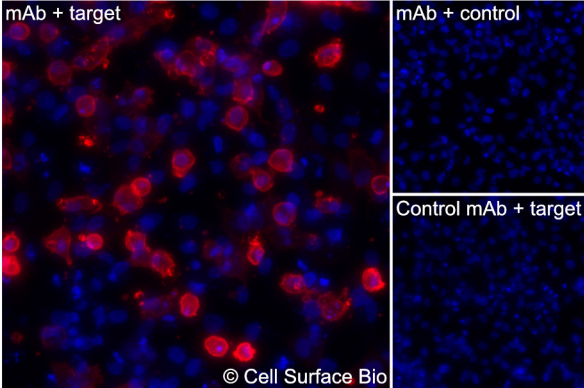
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



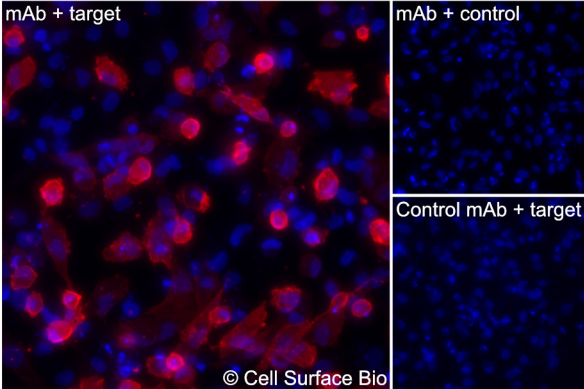
JS-1 cells transiently transfected with human PERP were stained with PERP Monoclonal Antibody (CSB0200)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with PERP Monoclonal Antibody (CSB0200)(blue).

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



(Left) JS-1 cells transiently transfected human PERP were stained with PERP Monoclonal Antibody (CSB0200) 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 PERP Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with human PERP and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4 % paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(Left) JS-1 cells transiently transfected human PERP were permeabilized and stained with PERP Monoclonal Antibody (CSB0200) 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 PERP Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with human PERP and stained with control MAb.