

DESCRIPTION

Target:	TSPAN13
Target aliases:	NET-7, TM4SF13, tetraspan NET-7
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.

TSPAN13 TARGET INFORMATION

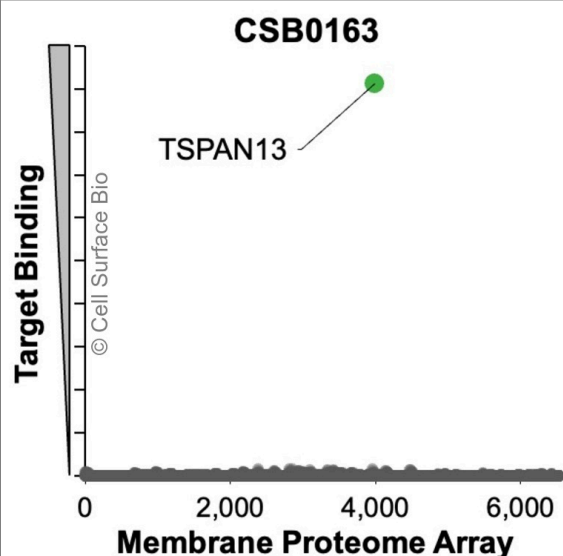
Tetraspanin-13 (TSPAN13) is a member of the tetraspanin family, a group of small transmembrane proteins characterized by four transmembrane domains and two extracellular loops. TSPAN13 is expressed in various tissues, with enrichment in the central nervous system and some epithelial tissues. It is thought to participate in the organization of membrane microdomains and may modulate signaling by interacting with partner proteins at the cell surface. The precise biological role of TSPAN13 remains unclear due to limited functional characterization. (NCBI Gene: 27075, UniProtKB/Swiss-Prot: 095857) Other names: NET-7, TM4SF13, tetraspan NET-7

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 TSPAN13 Monoclonal Antibody (CSB0163) was tested on the Membrane Proteome Array™ and shown to be specific for TSPAN13.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human 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

HEK-293F cells transiently transfected with TSPAN13 were stained with TSPAN13 Monoclonal Antibody (CSB0163) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with TSPAN13 Monoclonal Antibody (CSB0163) (blue).

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

(Left) JS-1 cells transiently transfected TSPAN13 were stained with TSPAN13 Monoclonal Antibody (CSB0163) 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 TSPAN13 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with TSPAN13 and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4 % paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
mAb + target © Cell Surface Bio mAb + control Control mAb + target (Left) JS-1 cells transiently transfected TSPAN13 were permeabilized and stained with TSPAN13 Monoclonal Antibody (CSB0163) 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 TSPAN13 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.		