

DESCRIPTION

Target:	TSPAN18
Target aliases:	Tetraspanin 18, TSPAN, Tetraspanin-18, Tspan-18
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.

TSPAN18 TARGET INFORMATION

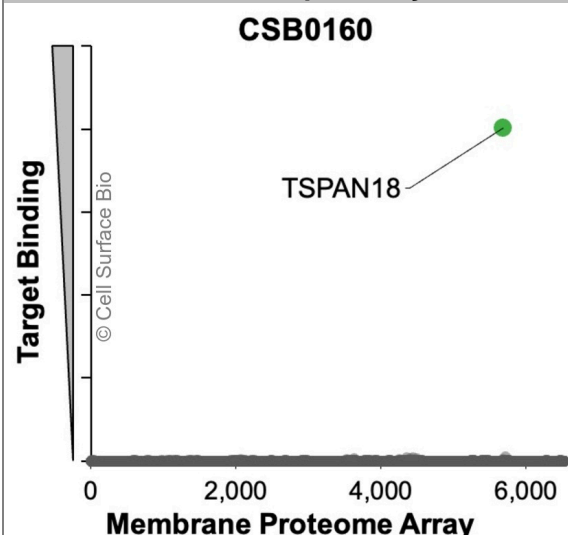
TSPAN18 is a member of the tetraspanin protein family, defined by four transmembrane domains and a conserved structural topology involved in organizing membrane microdomains. It localizes primarily to the plasma membrane and is expressed in several tissues, with notable levels in brain and endothelial cells. The precise biological function of TSPAN18 has not been conclusively determined. Experimental data support its general role as a membrane component, but no specific signaling or trafficking roles have been confirmed. (NCBI Gene: 90139, UniProtKB/Swiss-Prot: Q96SJ8) Other names: Tetraspanin 18, TSPAN, Tetraspanin-18, Tspan-18

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

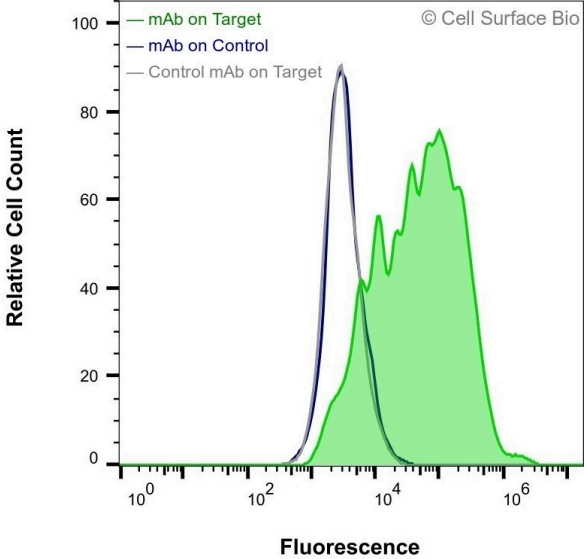
Membrane Proteome Specificity



The specificity of TSPAN18 Monoclonal Antibody (CSB0160) was tested on the Membrane Proteome Array™ and shown to be specific for TSPAN18.

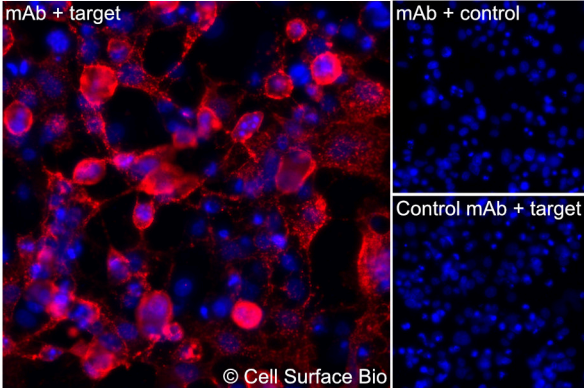
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with TSPAN18 were stained with TSPAN18 Monoclonal Antibody (CSB0160)(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 TSPAN18 Monoclonal Antibody (CSB0160)(blue).

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



(Left) COS-7 cells transiently transfected TSPAN18 were stained with TSPAN18 Monoclonal Antibody (CSB0160) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with TSPAN18 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with TSPAN18 and stained with control MAb.

Applications

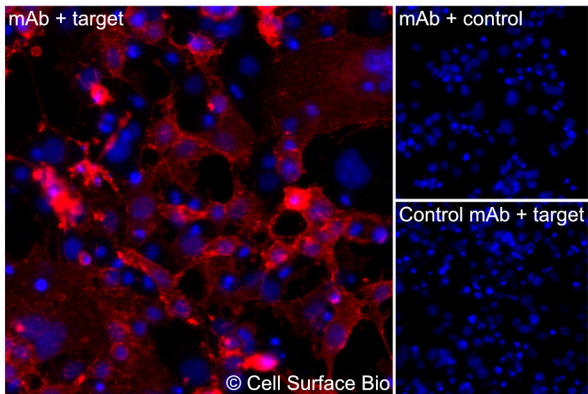
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected TSPAN18 were permeabilized and stained with TSPAN18 Monoclonal Antibody (CSB0160) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with TSPAN18 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.