

DESCRIPTION

Target:	TSPAN15
Target aliases:	TM4SF15
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

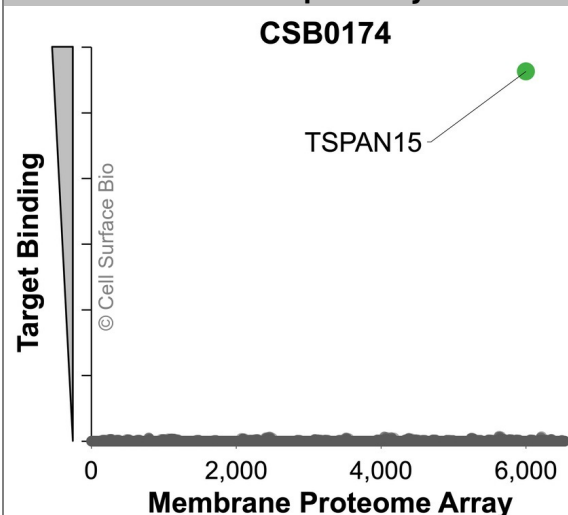
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

TSPAN15 TARGET INFORMATION

Tetraspanin-15 is a member of the tetraspanin superfamily, which comprises small integral membrane proteins containing four transmembrane domains. It contributes to the organization of membrane microdomains and forms complexes with other cell surface proteins. TSPAN15 interacts with the metalloprotease ADAM10, influencing its surface expression and potentially modulating proteolytic activity. It is expressed in multiple tissues, with enhanced expression in the gastrointestinal tract, bone marrow, and cerebral cortex. (NCBI Gene: 23555, UniProtKB/Swiss-Prot: 095858) Other names: TM4SF15

SHIPPING AND STORAGE

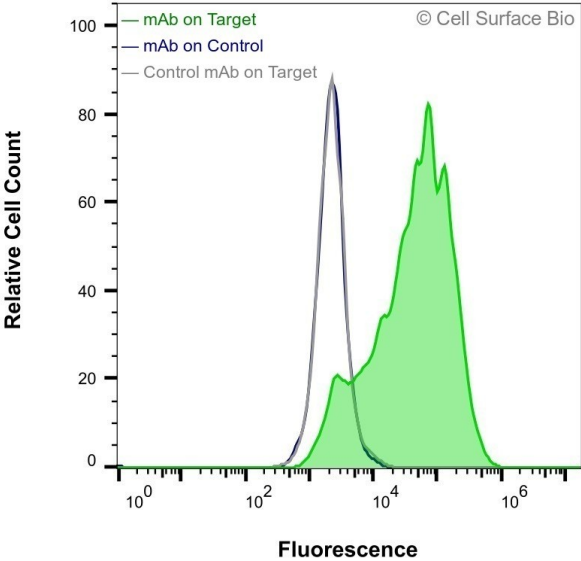
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of TSPAN15 Monoclonal Antibody (CSB0174) was tested on the Membrane Proteome Array™ and shown to be specific for TSPAN15.

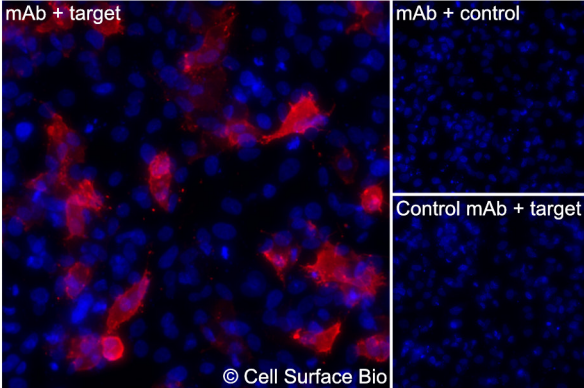
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with TSPAN15 were stained with TSPAN15 Monoclonal Antibody (CSB0174)(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 TSPAN15 Monoclonal Antibody (CSB0174)(blue).

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



(Left) JS-1 cells transiently transfected TSPAN15 were stained with TSPAN15 Monoclonal Antibody (CSB0174) 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 TSPAN15 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with TSPAN15 and stained with control MAb.

Applications

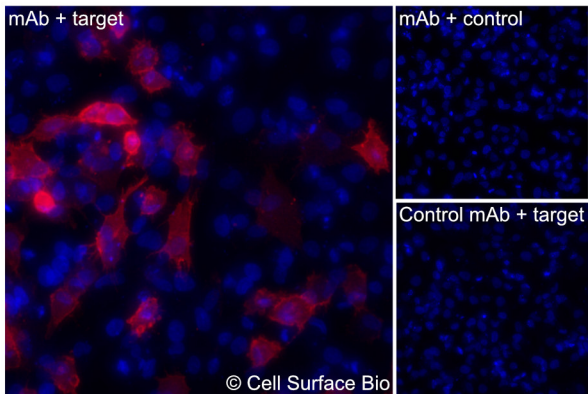
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected TSPAN15 were permeabilized and stained with TSPAN15 Monoclonal Antibody (CSB0174) 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 TSPAN15 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.