

DESCRIPTION

Target:	TMEFF2
Target aliases:	CT120.2, HPP1, TENB2, TPEF, TR, TR-2
Fc isotype:	Mouse 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.

TMEFF2 TARGET INFORMATION

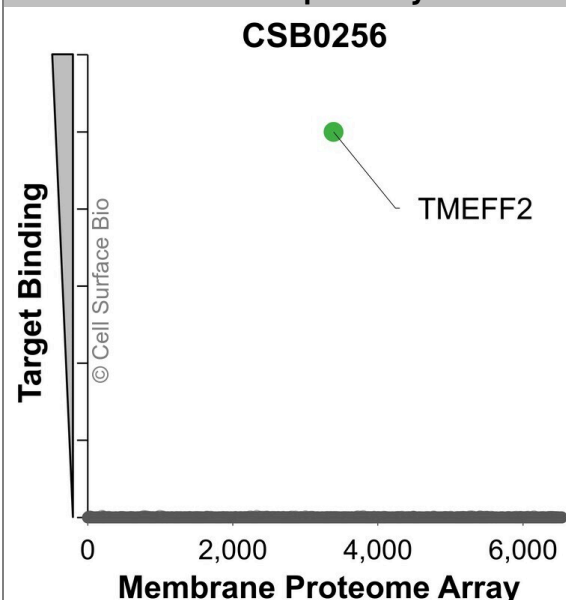
Tomoregulin-2 (TMEFF2) is a transmembrane protein involved in modulating cellular responses to growth factors and may play a role in neurodevelopment and tumor suppression. It is predominantly expressed in the brain and prostate, making it relevant for research into neurological disorders and prostate cancer. TMEFF2 is a member of the transmembrane proteoglycan family, characterized by its EGF-like and follistatin-like domains. (NCBI Gene: 23671, UniProtKB/Swiss-Prot: Q9UIK5) Other names: CT120.2, HPP1, TENB2, TPEF, TR, TR-2

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

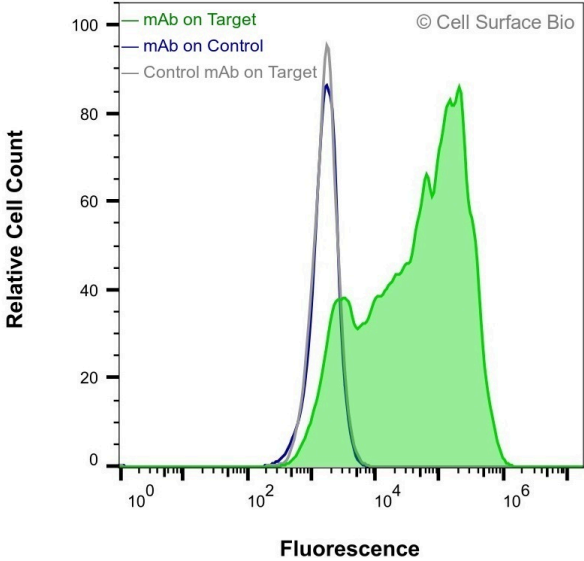
Membrane Proteome Specificity



The specificity of TMEFF2 Monoclonal Antibody (CSB0256) was tested on the Membrane Proteome Array™ and shown to be specific for TMEFF2.

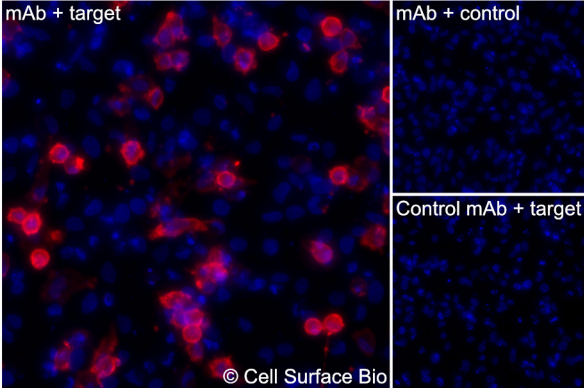
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed Avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



JS-1 cells transiently transfected with TMEFF2 were stained with TMEFF2 Monoclonal Antibody (CSB0256)(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 TMEFF2 Monoclonal Antibody (CSB0256)(blue).

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



(Left) JS-1 cells transiently transfected TMEFF2 were stained with TMEFF2 Monoclonal Antibody (CSB0256) 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 TMEFF2 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with TMEFF2 and stained with control MAb.

Applications

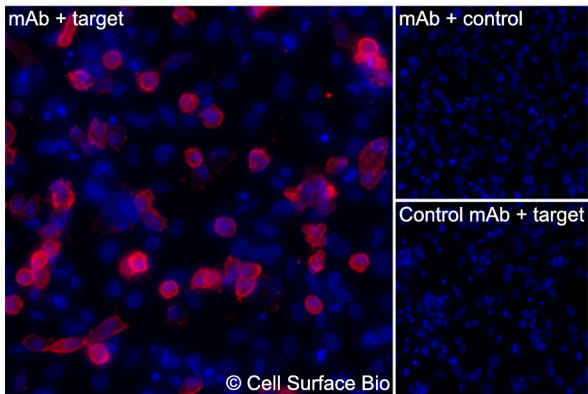
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected TMEFF2 were permeabilized and stained with TMEFF2 Monoclonal Antibody (CSB0256) 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 TMEFF2 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with TMEFF2 and stained with control MAb.