

DESCRIPTION

Target:	TTYH2
Target aliases:	Volume-Regulated Anion Channel Subunit TTYH2, Protein Tweety Homolog 2, HTTY2, Tweety Homolog 2
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.

TTYH2 TARGET INFORMATION

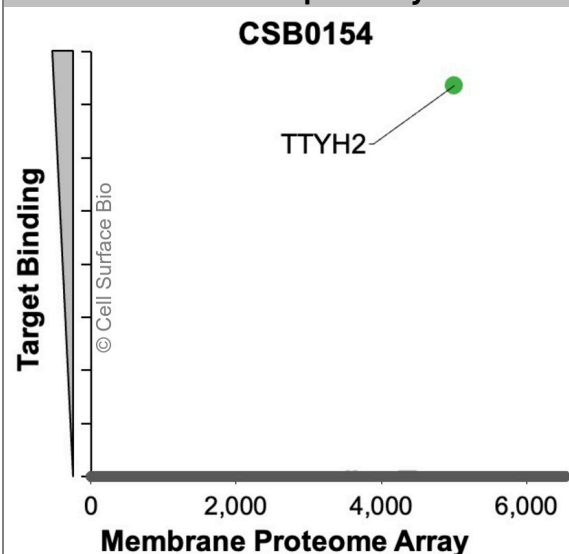
TTYH2 is a member of the tweety family of proteins, which are involved in endosomal lipid transfer. It is a multi-pass membrane protein characterized by several predicted transmembrane domains. TTYH2 is expressed in various tissues, with the highest levels observed in the brain. (NCBI Gene: 94015, UniProtKB/Swiss-Prot: Q9BSA4) Other names: Volume-Regulated Anion Channel Subunit TTYH2, Protein Tweety Homolog 2, HTTY2, Tweety Homolog 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

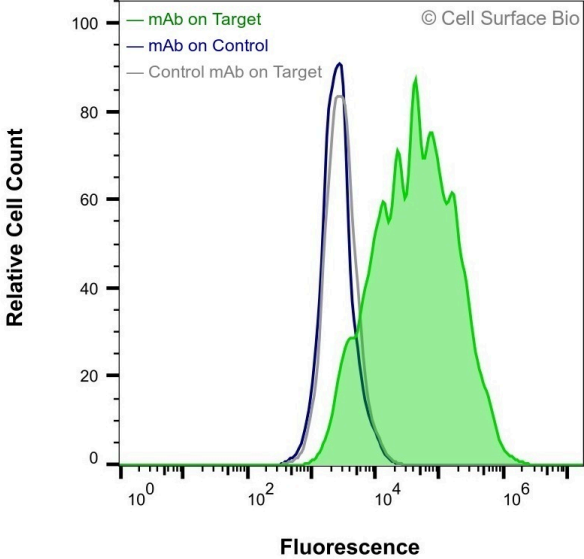
Membrane Proteome Specificity



The specificity of TTYH2 Monoclonal Antibody (CSB0154) was tested on the Membrane Proteome Array™ and shown to be specific for TTYH2.

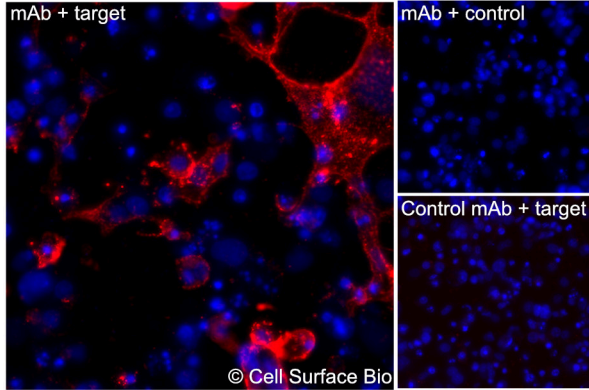
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with TTYH2 were stained with TTYH2 Monoclonal Antibody (CSB0154) (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 TTYH2 Monoclonal Antibody (CSB0154) (blue).

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



(Left) COS-7 cells transiently transfected TTYH2 were stained with TTYH2 Monoclonal Antibody (CSB0154) 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 TTYH2 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with TTYH2 and stained with control MAb.

Applications

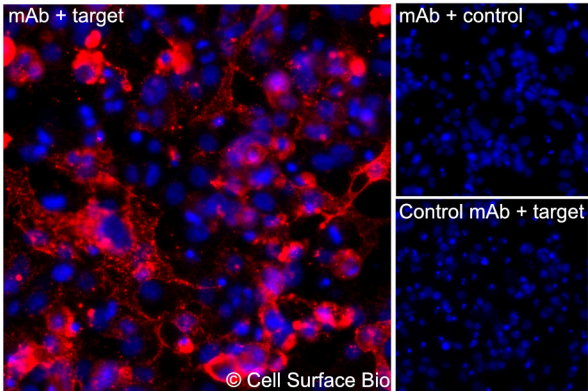
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected TTYH2 were permeabilized and stained with TTYH2 Monoclonal Antibody (CSB0154) 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 TTYH2 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.