

DESCRIPTION

Target:	NTRK1
Target aliases:	TRKA, TRK, MTC, P140-TrkA, Gp140trk, Trk-A, TRK1
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

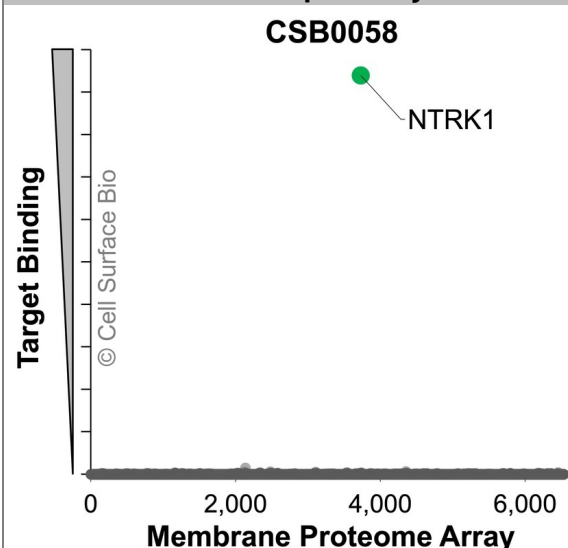
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

NTRK1 TARGET INFORMATION

NTRK1 is a single-pass transmembrane protein and receptor tyrosine kinase. NTRK1 primarily binds NGF, but also binds NTF3. NTRK1 is involved in cellular differentiation, possibly of subtypes or sensory neurons. Variants of NTRK1 are associated with cancer, cognitive disability, congenital insensitivity to pain, self-mutilating behavior, and anhidrosis. (NCBI Gene: 4914, UniProtKB/Swiss-Prot: P04629) Other names: TRKA, TRK, MTC, P140-TrkA, Gp140trk, Trk-A, TRK1

SHIPPING AND STORAGE

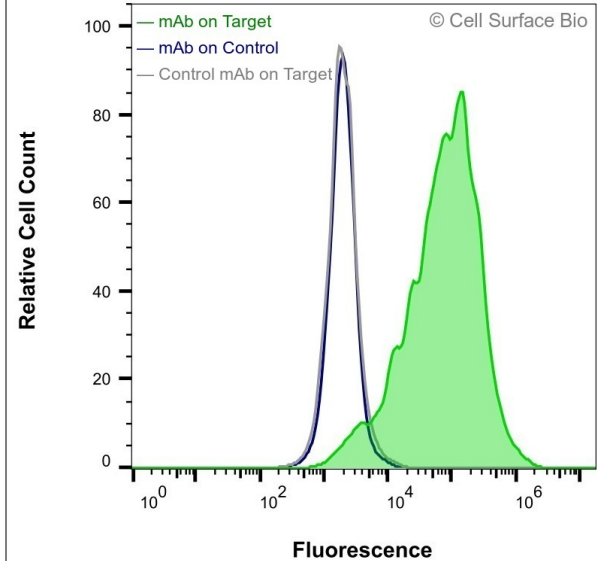
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of NTRK1 Monoclonal Antibody (CSB0058) was tested on the Membrane Proteome Array™ and shown to be specific for NTRK1.

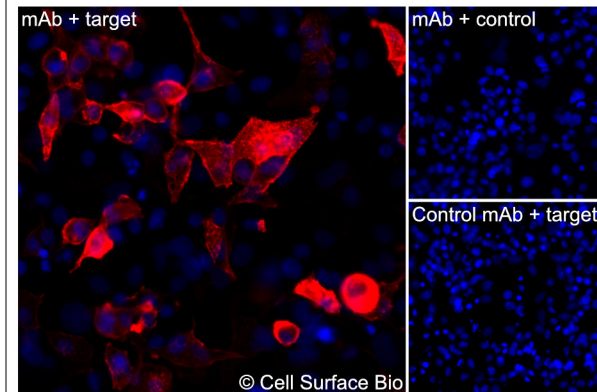
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



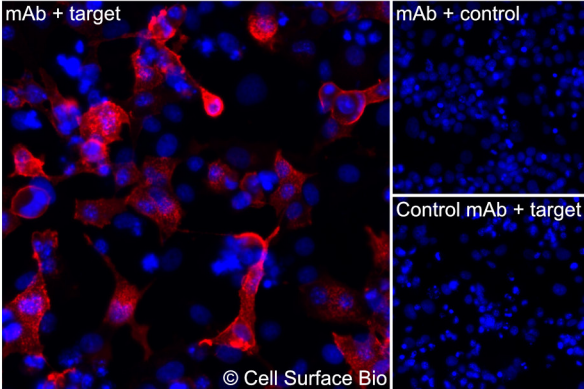
HEK-293F cells transiently transfected with NTRK1 were stained with NTRK1 Monoclonal Antibody (CSB0058)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with NTRK1 Monoclonal Antibody (CSB0058)(blue).

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



(Left) COS-7 cells transiently transfected NTRK1 were stained with NTRK1 Monoclonal Antibody (CSB0058) 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 NTRK1 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with NTRK1 and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(Left) COS-7 cells transiently transfected NTRK1 were permeabilized and stained with NTRK1 Monoclonal Antibody (CSB0058) 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 NTRK1 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.