

DESCRIPTION

Target:	TNF
Target aliases:	TNF-Alpha, TNFSF2, TNFA, DIF, TNF-A, APC1 protein, Cachectin, TNLG1F
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.

TNF TARGET INFORMATION

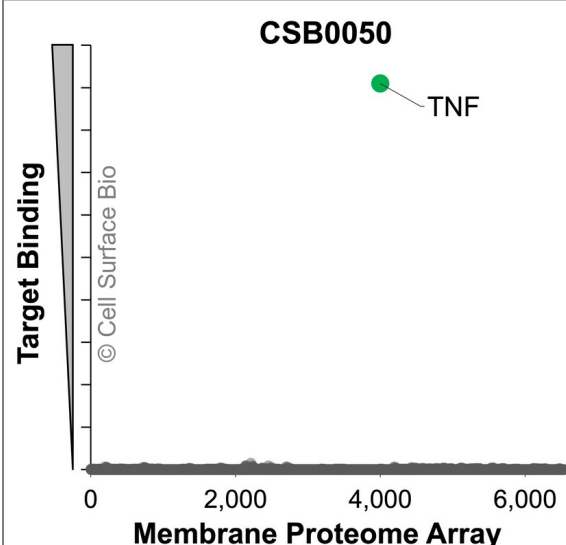
TNF is a single-pass transmembrane protein with a secreted form. TNF is a cytokine that is part of the tumor necrosis factor superfamily. TNF binds TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. Acting through its receptors, TNF has roles in cellular proliferation and differentiation, lipid metabolism, apoptosis, and coagulation. TNF is involved in cancer, autoimmune diseases, psoriasis, rheumatoid arthritis, ankylosing spondylitis, tuberculosis, insulin resistance, cerebral malaria, septic shock, autosomal dominant polycystic kidney disease, and Alzheimer's disease. (NCBI Gene: 7124, UniProtKB/Swiss-Prot: P01375) Other names: TNF-Alpha, TNFSF2, TNFA, DIF, TNF-A, APC1 protein, Cachectin, TNLG1F

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

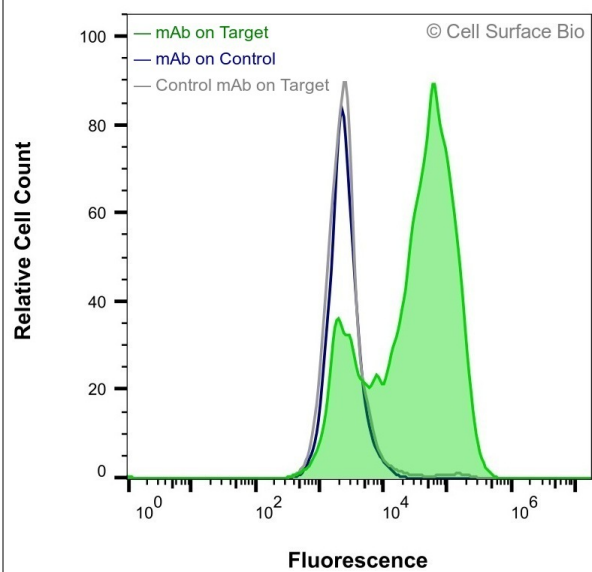
Membrane Proteome Specificity



The specificity of TNF Monoclonal Antibody (CSB0050) was tested on the Membrane Proteome Array™ and shown to be specific for TNF.

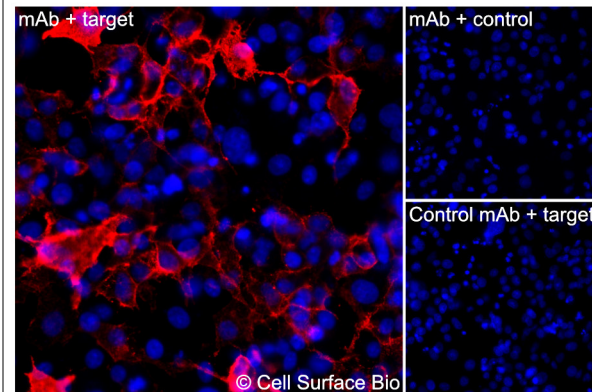
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with TNF were stained with TNF Monoclonal Antibody (CSB0050)(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 TNF Monoclonal Antibody (CSB0050)(blue).

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



(Left) COS-7 cells transiently transfected TNF were stained with TNF Monoclonal Antibody (CSB0050) 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 TNF Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with TNF and stained with control MAb.

Applications

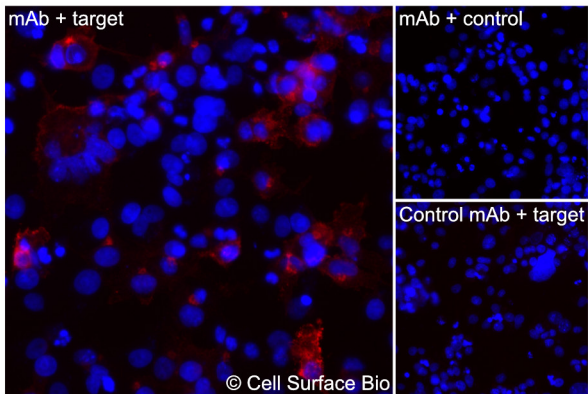
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected TNF were permeabilized and stained with TNF Monoclonal Antibody (CSB0050) 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 TNF Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.