TECHNICAL DATA SHEET

IL2RA MAb

Catalog Number: CSB0015

DESCRIPTION

Target:	IL2Ra
Target aliases:	CD25, IDDM10, IL2R, P55, IMD41, TCGFR
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.

IL2Ra TARGET INFORMATION

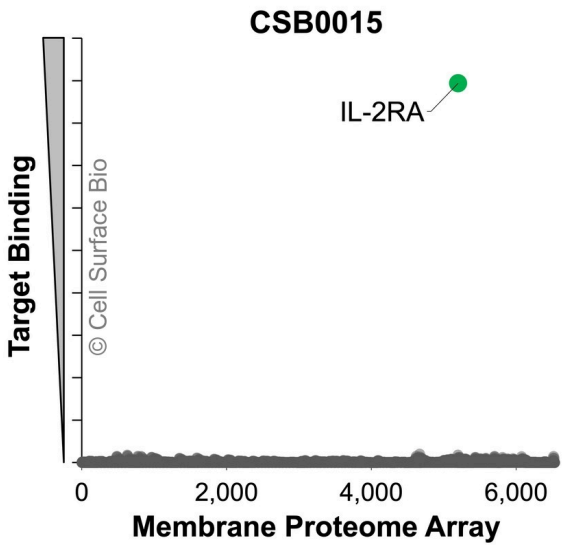
CD25 (also known as IL2-Ra) is a single-pass transmembrane protein and the alpha chain of the high-affinity IL2 receptor, which also includes beta and gamma chains. CD25 is involved in the regulation of immune tolerance. Severe COVID-19 causes elevated levels of IL2R in plasma, and elevated IL2R in serum is associated with some types of carcinomas. (NCBI Gene: 3559, UniProtKB/Swiss-Prot: P01589) Other names: CD25, IDDM10, IL2R, P55, IMD41, TCGFR

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 IL2Ra Monoclonal Antibody (CSB0015) was tested on the Membrane Proteome Array™ and shown to be specific for IL2Ra.

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.

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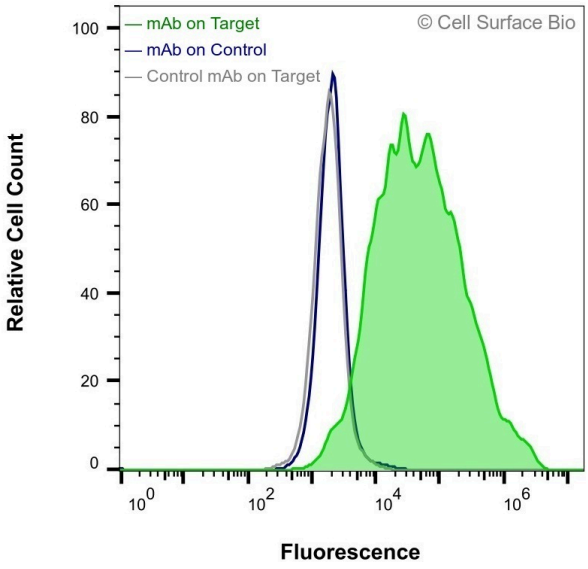
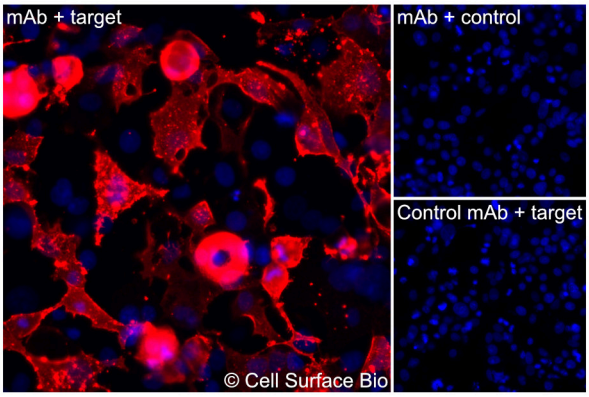
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



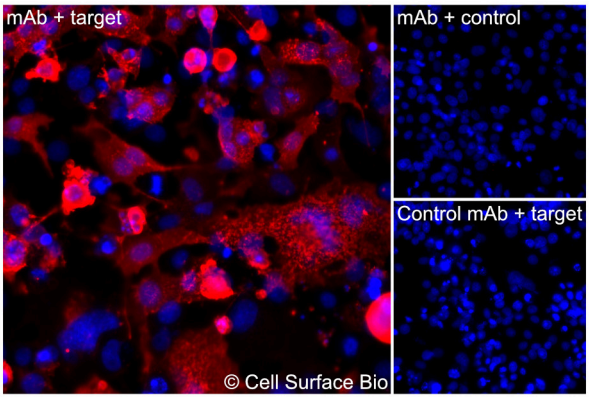
HEK-293F cells transiently transfected with IL2Ra were stained with IL2Ra Monoclonal Antibody (CSB0015) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with IL2Ra Monoclonal Antibody (CSB0015) (blue).

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



(Left) COS-7 cells transiently transfected IL2Ra were stained with IL2Ra Monoclonal Antibody (CSB0015) 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 IL2Ra Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with IL2Ra 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 IL2Ra were permeabilized and stained with IL2Ra Monoclonal Antibody (CSB0015) 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 IL2Ra Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target} and stained with control MAb.