TECHNICAL DATA SHEET

IL3RA MAb

Catalog Number: CSB0004

DESCRIPTION

Target:	IL3RA
Target aliases:	CD123, IL3R, HIL-3Ra, IL3RAY, IL3RX, IL3RY
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.

IL3RA TARGET INFORMATION

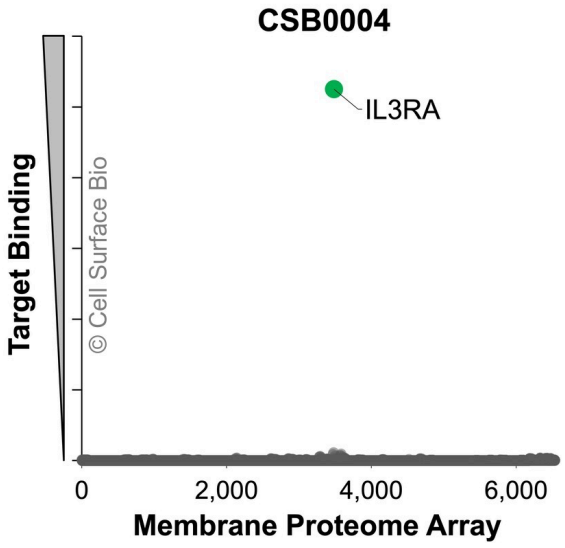
IL3RA is a single-pass transmembrane protein and the alpha subunit of a heterodimeric cytokine receptor. IL3RA binds interleukin 3, which activates the signal transducing beta subunit, activating the pathway responsible for regulating concentrations of various blood cell types. The beta subunit is shared with receptors for colony stimulating factor 2 and interleukin 5. (NCBI Gene: 3563, UniProtKB/Swiss-Prot: P26951) Other names: CD123, IL3R, HIL-3Ra, IL3RAY, IL3RX, IL3RY

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 IL3RA Monoclonal Antibody (CSB0004) was tested on the Membrane Proteome Array™ and shown to be specific for IL3RA.

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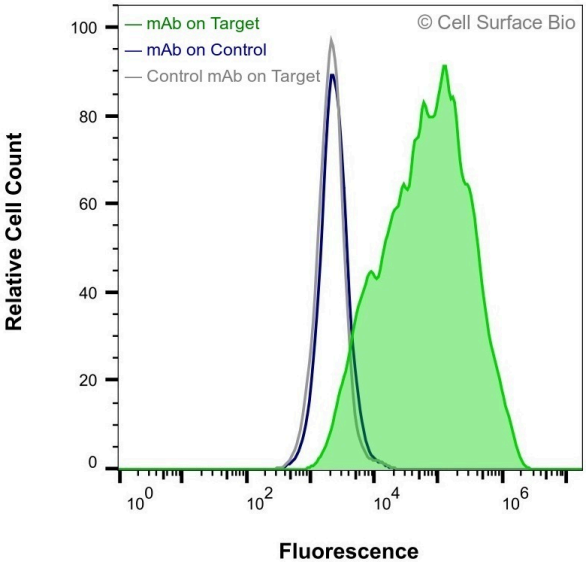
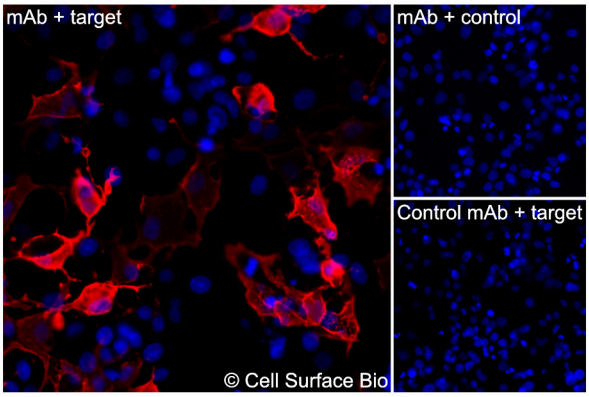
Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



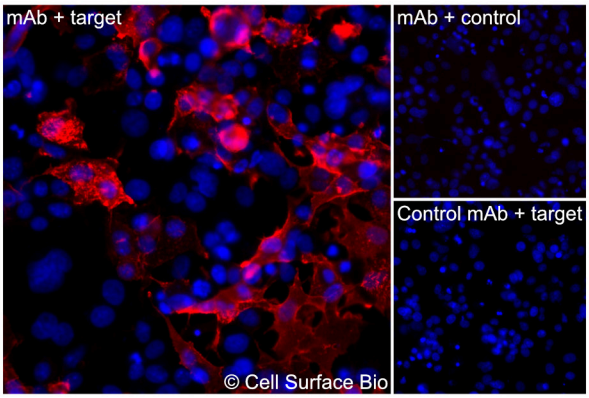
HEK-293F cells transiently transfected with IL3RA were stained with IL3RA Monoclonal Antibody (CSB0004) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with IL3RA Monoclonal Antibody (CSB0004) (blue).

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



(Left) COS-7 cells transiently transfected IL3RA were stained with IL3RA Monoclonal Antibody (CSB0004) 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 IL3RA Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with IL3RA 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 IL3RA were permeabilized and stained with IL3RA Monoclonal Antibody (CSB0004) 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 IL3RA Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target} and stained with control MAb.