

DESCRIPTION

Target:	CTLA4
Target aliases:	CD152, GSE, CD, CELIAC3, IDDM12, ALPS5, GRD4
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

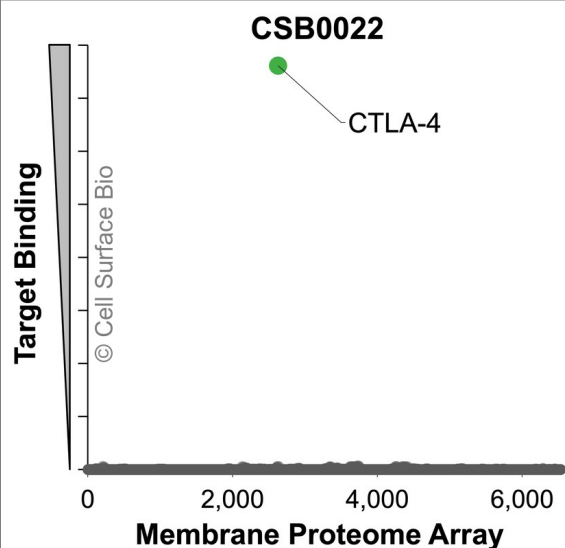
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

CTLA4 TARGET INFORMATION

CTLA-4 is a member of the immunoglobulin superfamily that contains a V domain, a transmembrane domain, and a cytoplasmic tail and has a membrane-bound isoform and a soluble isoform. The membrane-bound isoform is a homodimer, while the soluble isoform is a monomer. CTLA-4 transmits an inhibitory signal to T-cells, and mutations in CTLA-4 are associated with type 1 diabetes, Graves' disease, Hashimoto thyroiditis, celiac disease, lupus, thyroid-associated orbitopathy, and other autoimmune diseases. (NCBI Gene: 1493) Other names: CD152, GSE, CD, CELIAC3, IDDM12, ALPS5, GRD4

SHIPPING AND STORAGE

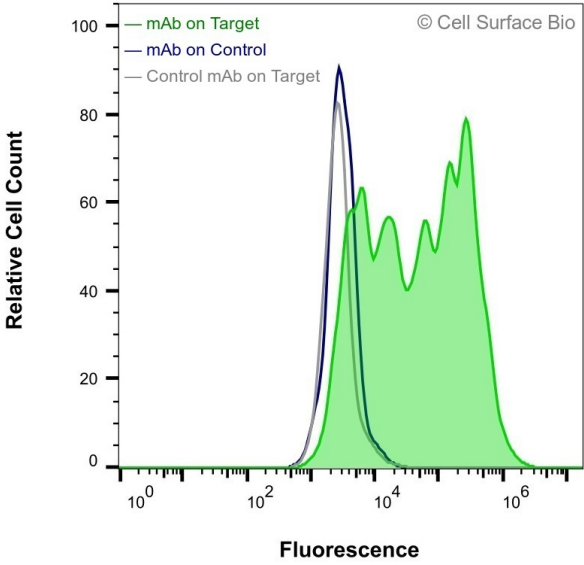
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of CTLA4 Monoclonal Antibody (CSB0022) was tested on the Membrane Proteome Array™ and shown to be specific for CTLA4.

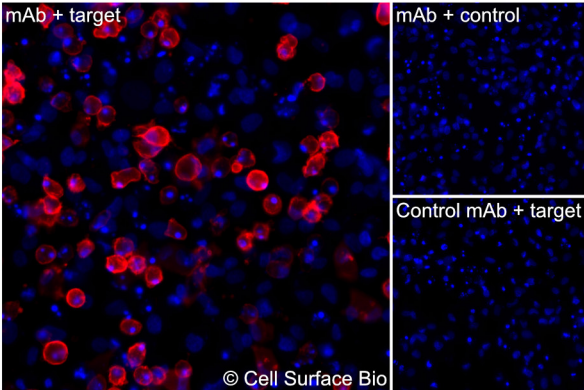
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



HEK-293F cells transiently transfected with CTLA4 were stained with CTLA4 Monoclonal Antibody (CSB0022) (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 CTLA4 Monoclonal Antibody (CSB0022) (blue).

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



(Left) JS-1 cells transiently transfected CTLA4 were stained with CTLA4 Monoclonal Antibody (CSB0022) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with CTLA4 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with CTLA4 and stained with control MAb.

Applications

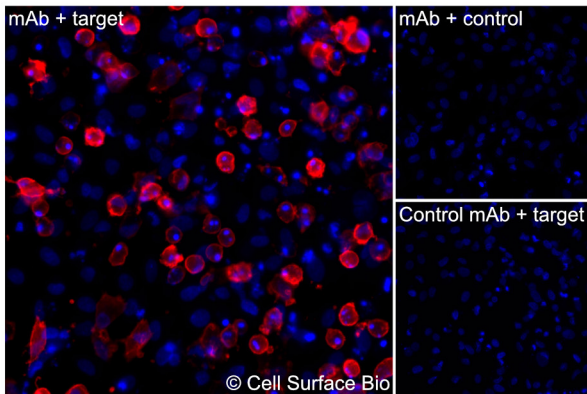
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected CTLA4 were permeabilized and stained with CTLA4 Monoclonal Antibody (CSB0022) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) JS-1 cells transiently transfected with an empty control vector stained with CTLA4 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.