

DESCRIPTION

Target:	CD2
Target aliases:	SRBC, LFA-2, T11
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

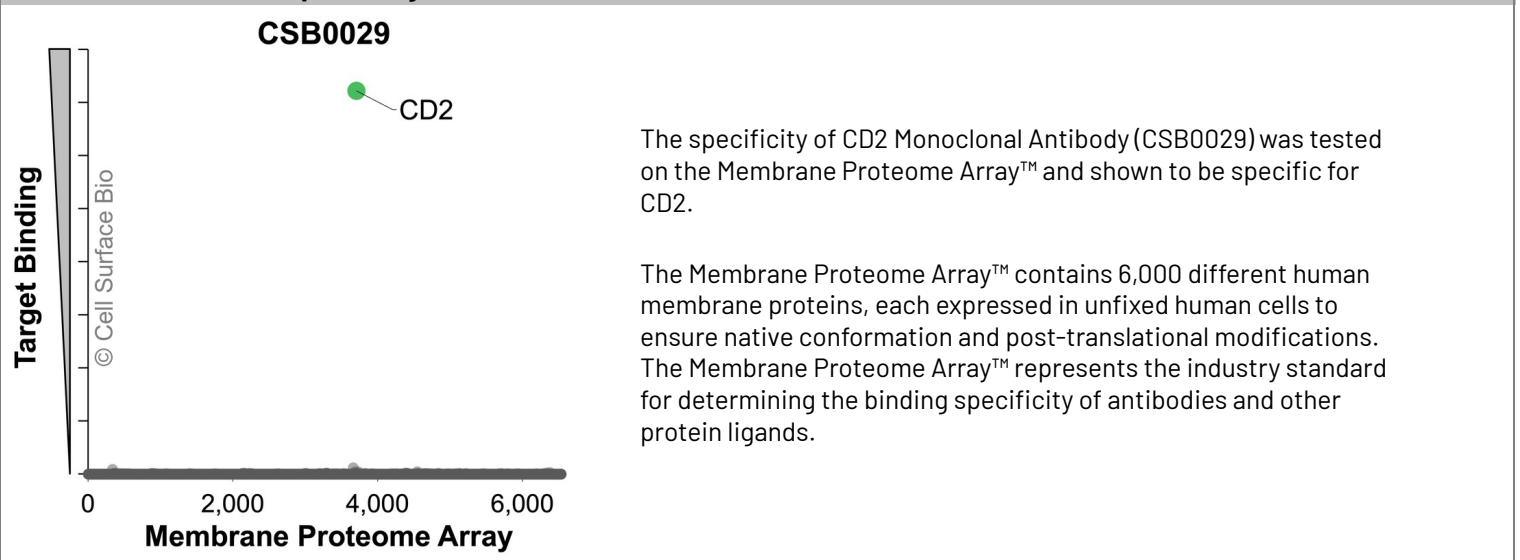
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

CD2 TARGET INFORMATION

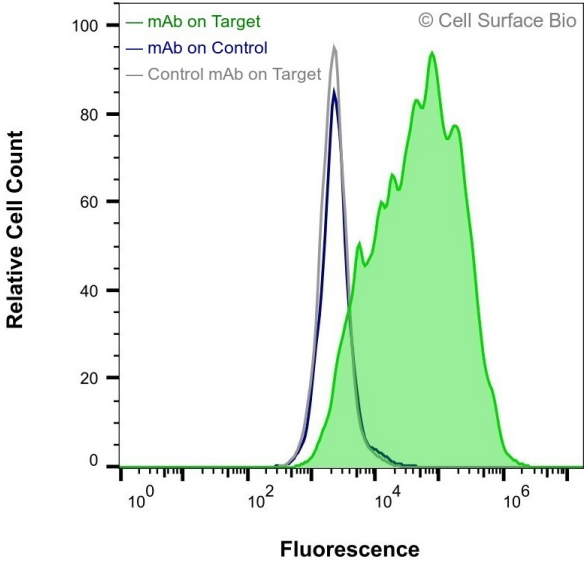
CD2 is a single-pass transmembrane protein and surface antigen present on all peripheral blood T-cells. CD2 mediates adhesion between T-cells and other cell types through interactions with CD48/BCM1 and CD58. Specifically, CD2 interacts with CD58 on antigen-presenting cells to optimize immune recognition. (NCBI Gene: 914, UniProtKB/Swiss-Prot: P06729) Other names: SRBC, LFA-2, T11

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.

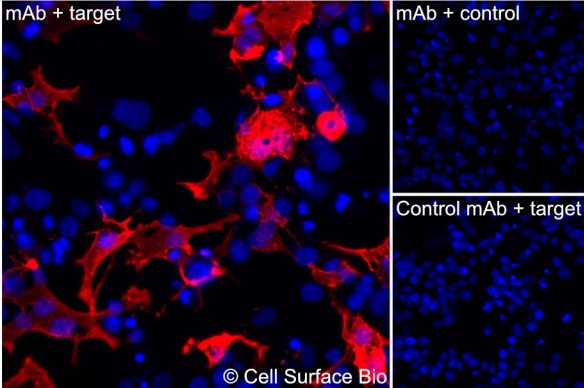
VALIDATION DATA
Membrane Proteome Specificity


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



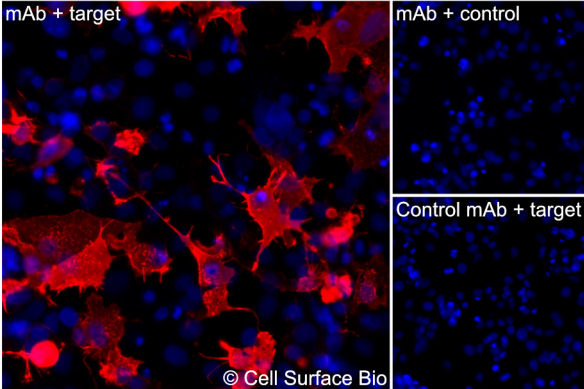
HEK-293F cells transiently transfected with CD2 were stained with CD2 Monoclonal Antibody (CSB0029)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CD2 Monoclonal Antibody (CSB0029)(blue).

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



(Left) COS-7 cells transiently transfected CD2 were stained with CD2 Monoclonal Antibody (CSB0029) 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 CD2 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with CD2 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 CD2 were permeabilized and stained with CD2 Monoclonal Antibody (CSB0029) 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 CD2 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.