

DESCRIPTION

Target:	CD31
Target aliases:	PECAM1, PECAM-1, EndoCAM, GPIIA, PECA1, CD31/EndoCAM
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

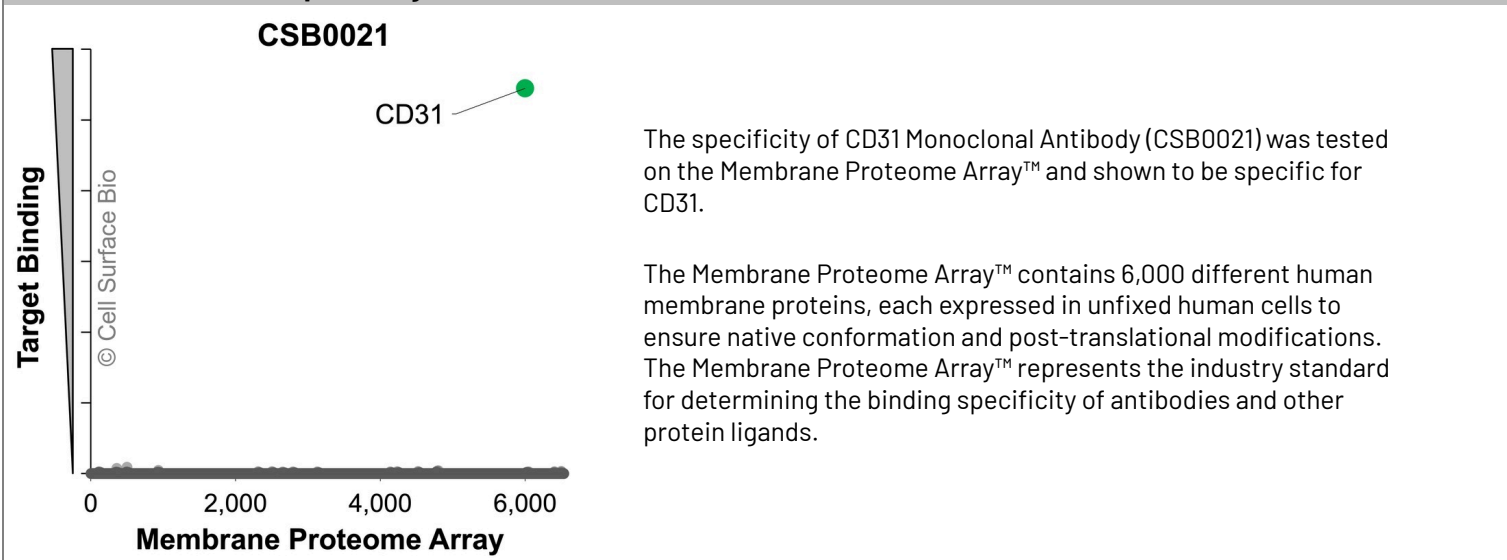
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

CD31 TARGET INFORMATION

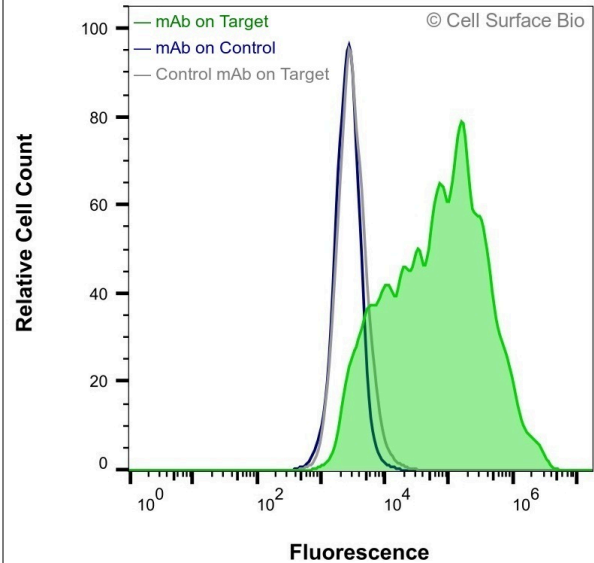
CD31 is a single-pass transmembrane protein, cell adhesion molecule, and member of the immunoglobulin superfamily found on the surface of platelets, monocytes, neutrophils, and some types of T-cells. CD31 may play a role in leukocyte migration, angiogenesis, and integrin activation. (NCBI Gene: 5175, UniProtKB/Swiss-Prot: P16284) Other names: PECAM1, PECAM-1, EndoCAM, GPIIA, PECA1, CD31/EndoCAM

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.

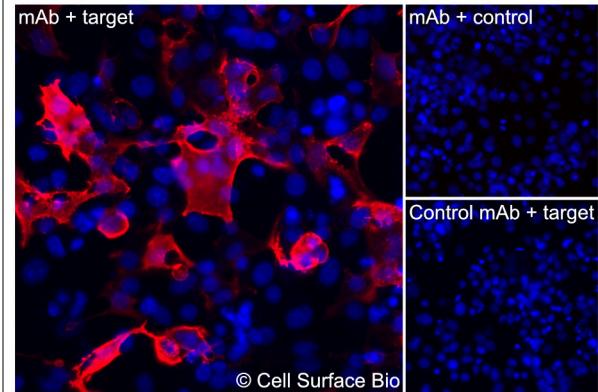
VALIDATION DATA
Membrane Proteome Specificity


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



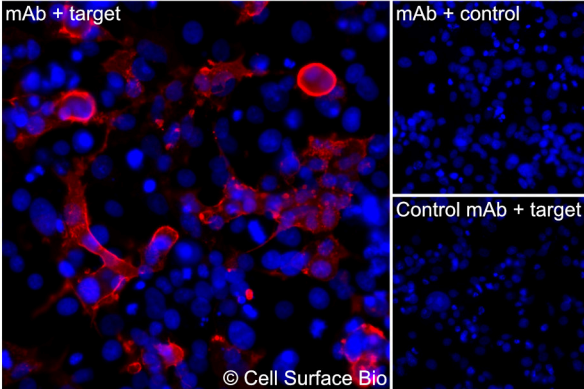
HEK-293F cells transiently transfected with CD31 were stained with CD31 Monoclonal Antibody (CSB0021)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CD31 Monoclonal Antibody (CSB0021)(blue).

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



(Left) COS-7 cells transiently transfected CD31 were stained with CD31 Monoclonal Antibody (CSB0021) 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 CD31 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with CD31 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 CD31 were permeabilized and stained with CD31 Monoclonal Antibody (CSB0021) 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 CD31 Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.