

DESCRIPTION

Target:	CD44
Target aliases:	HCELL, CSPG8, MC56, Pgp1, MDU2, MDU3, MIC4, IN, ECMR-III, HUTCH-I, Epican, CD44R, LHR, CDW44, CDw44, PGP-1, PGP-I
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

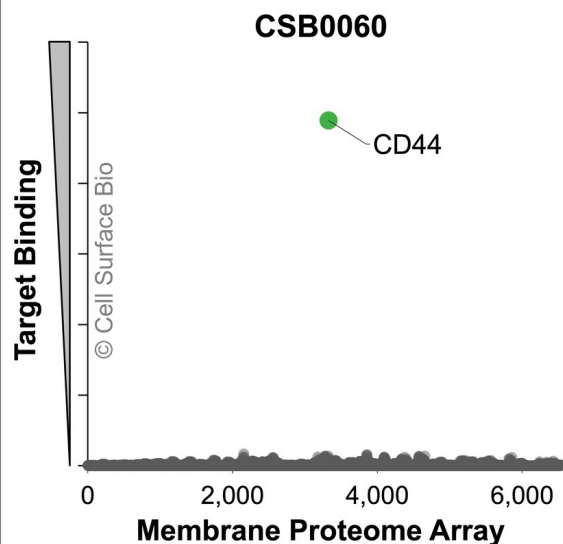
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

CD44 TARGET INFORMATION

CD44 is a single-pass transmembrane protein and cell-surface glycoprotein. CD44 is involved in cell-cell interactions, cell adhesion, and migration and is a receptor for hyaluronic acid, collagen, and other parts of the extracellular matrix. CD44 plays roles in hematopoiesis, inflammation, and immune response and may also be involved tumor metastasis. (NCBI Gene: 960, UniProtKB/Swiss-Prot: P16070) Other names: HCELL, CSPG8, MC56, Pgp1, MDU2, MDU3, MIC4, IN, ECMR-III, HUTCH-I, Epican, CD44R, LHR, CDW44, CDw44, PGP-1, PGP-I

SHIPPING AND STORAGE

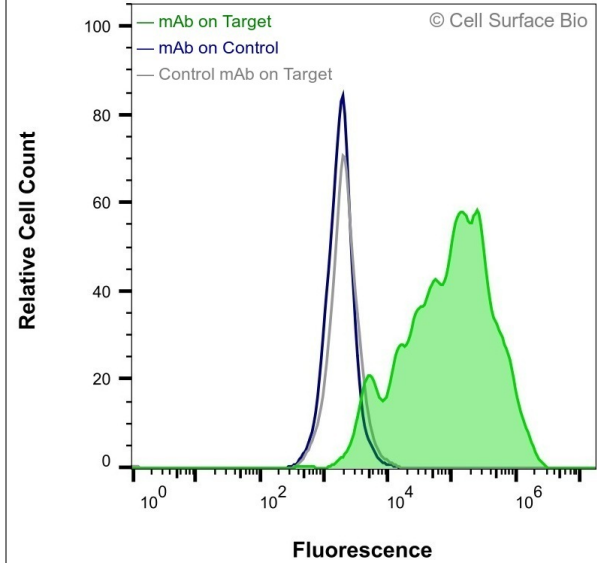
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of CD44 Monoclonal Antibody (CSB0060) was tested on the Membrane Proteome Array™ and shown to be specific for CD44.

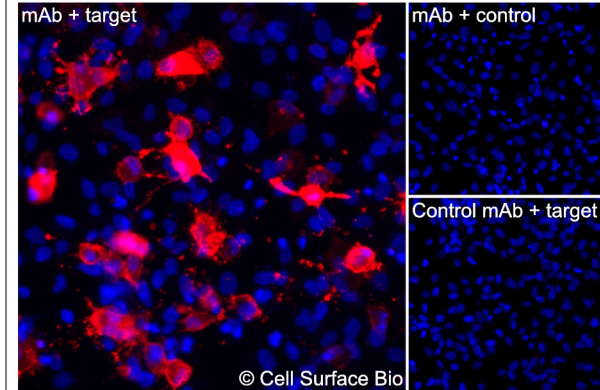
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



JS-1 cells transiently transfected with CD44 were stained with CD44 Monoclonal Antibody (CSB0060)(green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. JS-1 cells transiently transfected with an empty control vector were also stained with CD44 Monoclonal Antibody (CSB0060)(blue).

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



(Left) JS-1 cells transiently transfected CD44 were stained with CD44 Monoclonal Antibody (CSB0060) 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 CD44 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with CD44 and stained with control MAb.

Applications

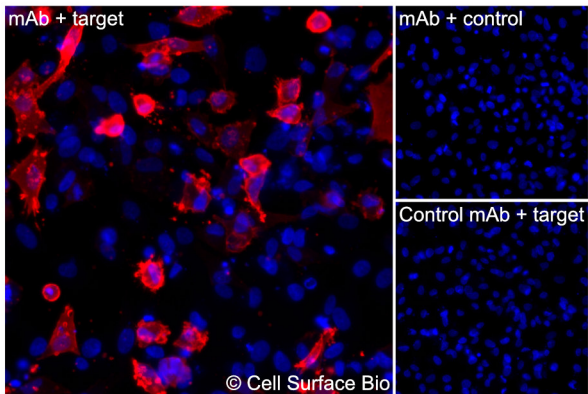
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) JS-1 cells transiently transfected CD44 were permeabilized and stained with CD44 Monoclonal Antibody (CSB0060) 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 CD44 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.