

DESCRIPTION

Target:	CD147
Target aliases:	BSG, EMPRIN, HAB18G, TCSF, 5F7, OK
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

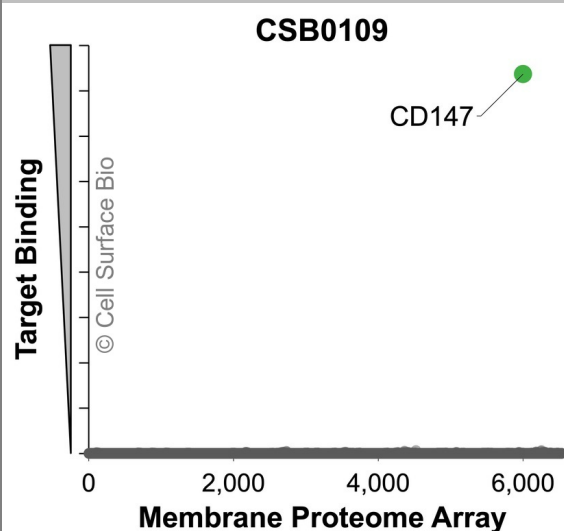
1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc- γ receptor binding site to minimize non-specific antibody binding.

CD147 TARGET INFORMATION

CD147 is a single-pass transmembrane protein that is part of the immunoglobulin superfamily. CD147 is involved in spermatogenesis, embryo implantation, neural network formation, retinal maturation and development, and tumor progression. CD147 also facilitates SARS-CoV-1, HIV-1, and measles infection. (NCBI Gene: 682, UniProtKB/Swiss-Prot: P35613) Other names: BSG, EMPRIN, HAB18G, TCSF, 5F7, OK

SHIPPING AND STORAGE

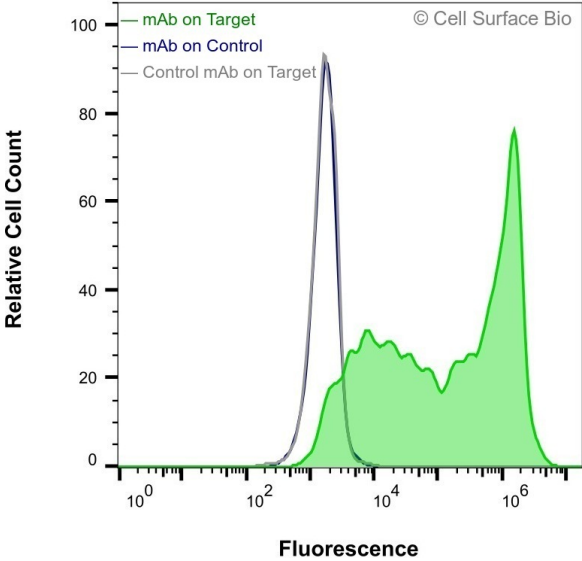
Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA
Membrane Proteome Specificity


The specificity of CD147 Monoclonal Antibody (CSB0109) was tested on the Membrane Proteome Array™ and shown to be specific for CD147.

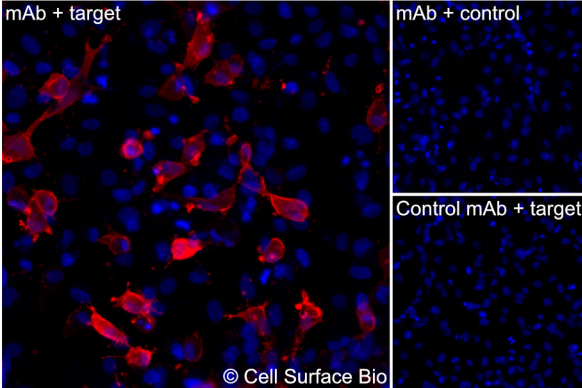
The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed avian cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies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

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



JS-1 cells transiently transfected with CD147 were stained with CD147 Monoclonal Antibody (CSB0109) (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 CD147 Monoclonal Antibody (CSB0109) (blue).

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



(Left) JS-1 cells transiently transfected CD147 were stained with CD147 Monoclonal Antibody (CSB0109) 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 CD147 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with CD147 and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml
mAb + target mAb + control Control mAb + target © Cell Surface Bio (Left) JS-1 cells transiently transfected CD147 were permeabilized and stained with CD147 Monoclonal Antibody (CSB0109) 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 CD147 Monoclonal Antibody. (Bottom right) Isotype control: JS-1 cells transfected with {{target}} and stained with control MAb.		