



DESCRIPTION

Target:	CD7
Target aliases:	GP40, TP41, LEU-9, Tp40, P41
Fc isotype:	Mouse IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (others untested)
Epitope:	
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 to endogenously-expressed Fc- γ receptors on target cells.

CD7 TARGET INFORMATION

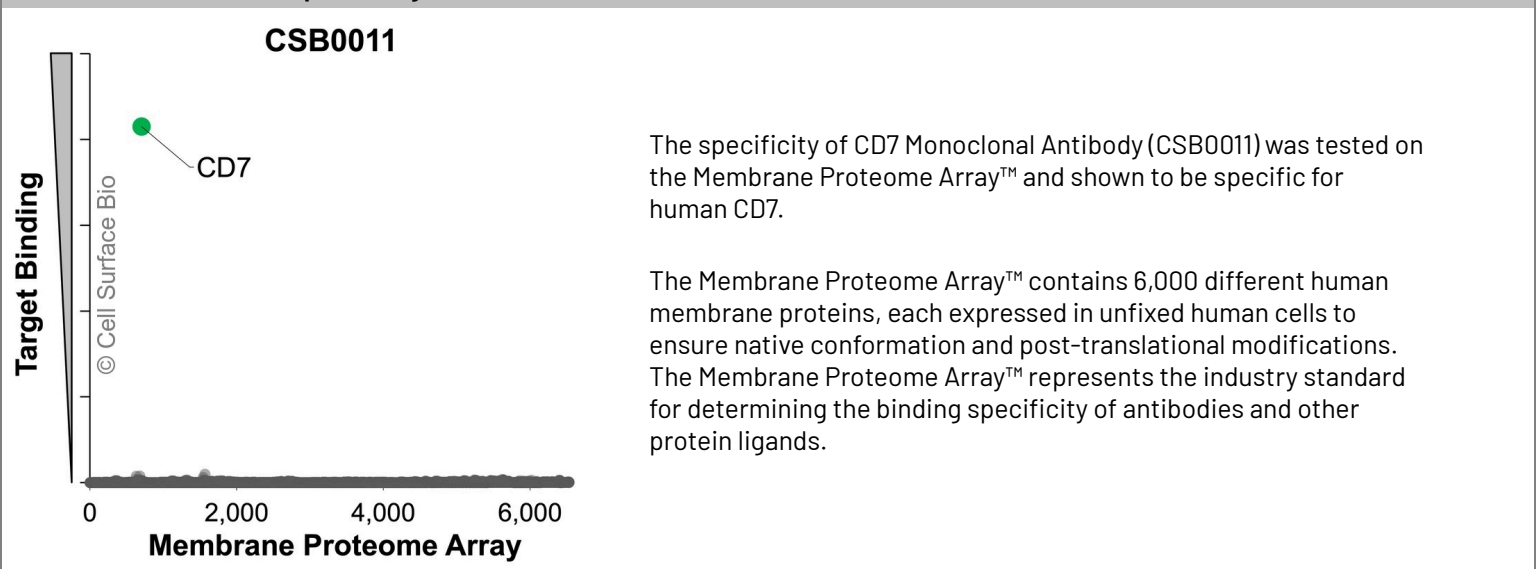
CD7 is a single-pass transmembrane protein in the immunoglobulin superfamily. CD7 is involved in T-cell interactions, as well as T-cell/B-cell interactions during early lymphoid development. (NCBI Gene: 924, UniProtKB/Swiss-Prot: P09564). Other names: GP40, TP41, LEU-9, Tp40, P41

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

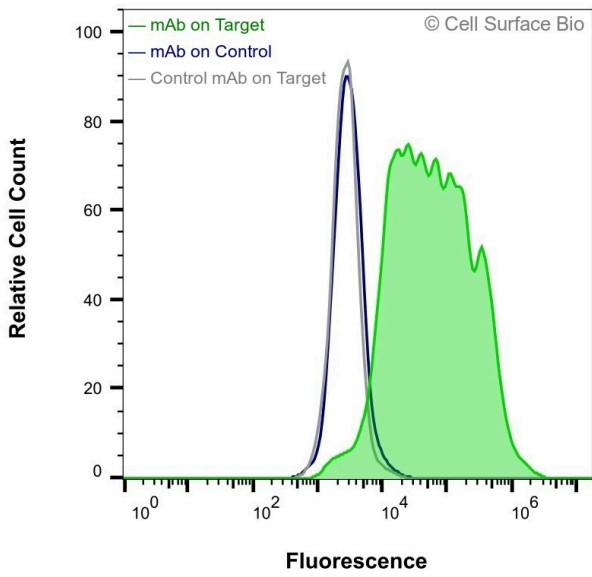
Membrane Proteome Specificity



Applications
Flow Cytometry, Extracellular

Conditions
Live, Unpermeabilized

Recommended concentration
1 µg/ml



HEK-293F cells transiently transfected with human CD7 were stained with CD7 Monoclonal Antibody (CSB0011)(green) or isotype control antibody (gray), followed by AlexaFluor 647-conjugated anti-mouse IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with CD7 Monoclonal Antibody (CSB0011)(blue).

Applications

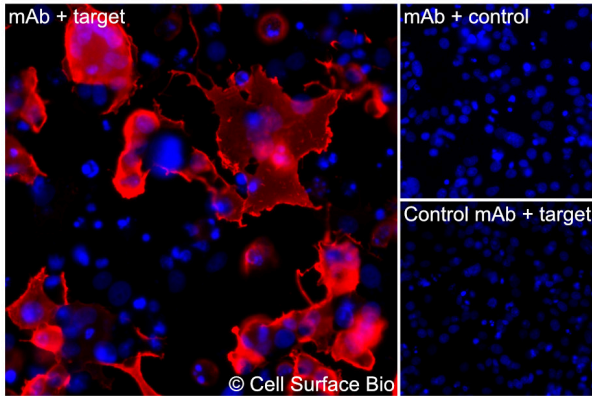
Immunofluorescence, Extracellular

Conditions

Fixed 4% paraformaldehyde

Recommended concentration

1 µg/ml



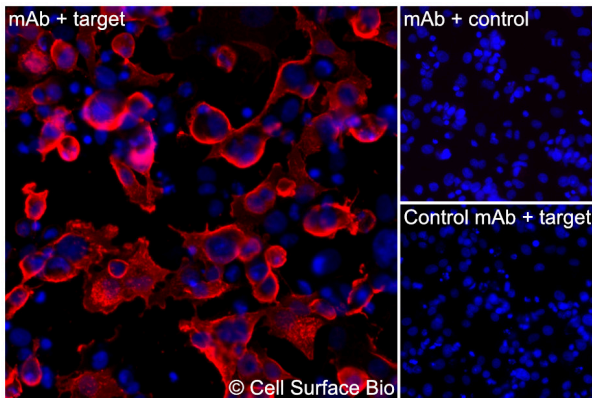
(A) COS-7 cells transiently transfected with human CD7 were stained with CD7 Monoclonal Antibody (CSB0011) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with CD7 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human CD7 and stained with control MAb.

Applications

Immunofluorescence, Intracellular

ConditionsFixed 4% paraformaldehyde,
Permeabilized 0.1% Triton X-100**Recommended concentration**

1 µg/ml



(A) COS-7 cells transiently transfected with human CD7 were permeabilized and stained with CD7 Monoclonal Antibody (CSB0011) followed by AlexaFluor 647 anti-mouse IgG secondary antibody (red) and DAPI (blue). (B) COS-7 cells transiently transfected with an empty control vector stained with CD7 Monoclonal Antibody. (C) Isotype control: COS-7 cells transfected with human CD7 and stained with control MAb.