

DESCRIPTION

Target:	CD3e
Target aliases:	T3E, IMD18, TCRE
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.

CD3e TARGET INFORMATION

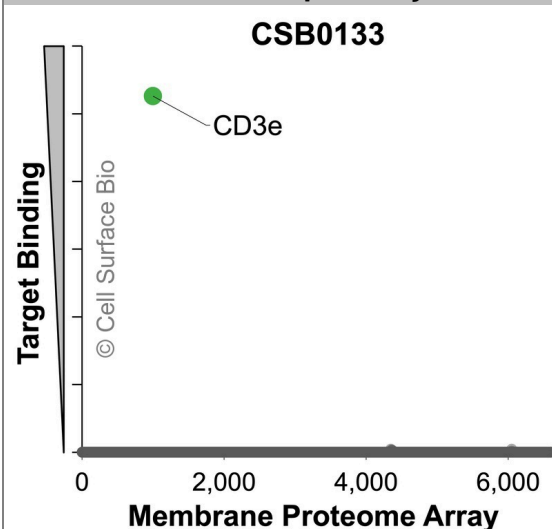
CD3e is a single-pass transmembrane protein. CD3e is a component of the T-cell receptor-CD3 complex, along with CD3g, CD3d, CD3z, and the T-cell receptor alpha/beta and gamma/delta heterodimers. The CD3 chains, including CD3e, are responsible for transmitting TCR-mediated signals. CD3e is also involved in T-cell development. Defects in CD3e result in immunodeficiency. Other names: T3E, IMD18, TCRE

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 CD3e Monoclonal Antibody (CSB0133) was tested on the Membrane Proteome Array™ and shown to be specific for CD3e.

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

HEK-293F cells transiently transfected with CD3e were stained with CD3e Monoclonal Antibody (CSB0133) (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 CD3e Monoclonal Antibody (CSB0133) (blue).

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

(Left) COS-7 cells transiently transfected CD3e were stained with CD3e Monoclonal Antibody (CSB0133) 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 CD3e Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with CD3e and stained with control MAb.

Applications

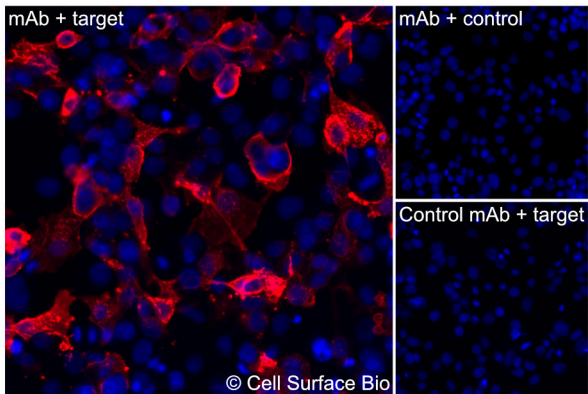
Immunofluorescence, Intracellular

Conditions

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

Recommended concentration

1 µg/ml



(Left) COS-7 cells transiently transfected CD3e were permeabilized and stained with CD3e Monoclonal Antibody (CSB0133) 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 CD3e Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target}} and stained with control MAb.