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Datasheet for ABIN7538492

CD45 Protein (AA 26-566) (His tag)

1 Image

Overview

Quantity:	50 µg
Target:	CD45 (PTPRC)
Protein Characteristics:	AA 26-566
Origin:	Mouse
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD45 protein is labelled with His tag.

Product Details

Purpose:	Recombinant mouse CD45 protein with C-terminal 6xHis tag
Specificity:	Mouse CD45 (Gln26-Lys566) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	Enables several functions, including heparan sulfate proteoglycan binding activity, heparin

Target Details

binding activity, and protein tyrosine phosphatase activity. Involved in several processes, including lymphocyte differentiation, positive regulation of macromolecule metabolic process, and regulation of signal transduction. Acts upstream of or within several processes, including lymphocyte differentiation, positive regulation of lymphocyte activation, and regulation of protein phosphorylation. Located in external side of plasma membrane, focal adhesion, and membrane raft. Is expressed in several structures, including 3rd branchial arch, alimentary system, cardiovascular system, hemolymphoid system, and placenta. Used to study systemic lupus erythematosus. Human ortholog(s) of this gene implicated in hepatitis C, multiple sclerosis, severe combined immunodeficiency, and severe combined immunodeficiency, autosomal recessive, T cell-negative, B cell-positive, Nk cell-positive. Orthologous to human PTPRC (protein tyrosine phosphatase receptor type C). [provided by Alliance of Genome Resources, Apr 2022]

Molecular Weight: predicted molecular mass of 59.5 kDa after removal of the signal peptide. The apparent molecular mass of mCD45-His is 130-250 kDa due to glycosylation.

UniProt: [P06800](#)

Pathways: [TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

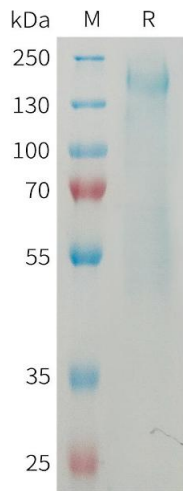
Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months



SDS-PAGE

Image 1. Mouse CD45 Protein, His Tag on SDS-PAGE under reducing condition.