HUMAN CD45 PROTEIN, HIS TAG

Cat.#: 11380
Product Name: Human CD45 Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: B220;CD45;CD45R;GP180;L-CA;LCA;LY5;T200
Target: CD45
UNIPROT ID: P08575
Description: Recombinant Human CD45 with C-terminal 6xHis tag
Background: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq, Jun 2012]
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 61.6 kDa after removal of the signal peptide.The apparent molecular mass of CD45-His is approximately 35-55 kDa due to glycosylation.
Molecular Characterization: CD45(Gln26-Lys577) 6×His tag
Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage & Shipping: 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.

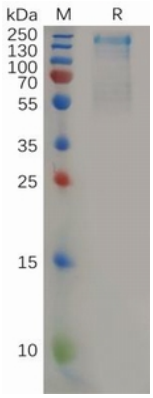

Figure 1. Human CD45 Protein, His Tag on SDS-PAGE under reducing condition.

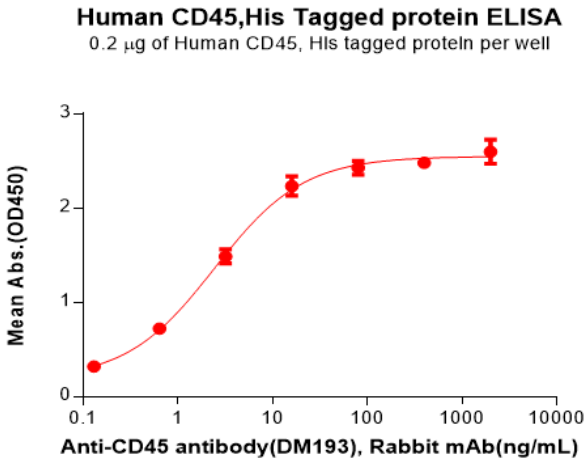

Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD45 Protein, His Tag(11380) can bind Anti-CD45 antibody(DM193), Rabbit mAb in a linear range of 0.64-16.00 ng/mL.

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