PRODUCT INFORMATION

Target	CD45
Synonyms	B220;CD45;CD45R;GP180;L-CA;LCA;LY5;T200
Description	Recombinant Human CD45 with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P08575
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	CD45(Gln26-Lys577) 6×His tag
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.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
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]
Usage	Research use only
Conjugate	Unconjugated

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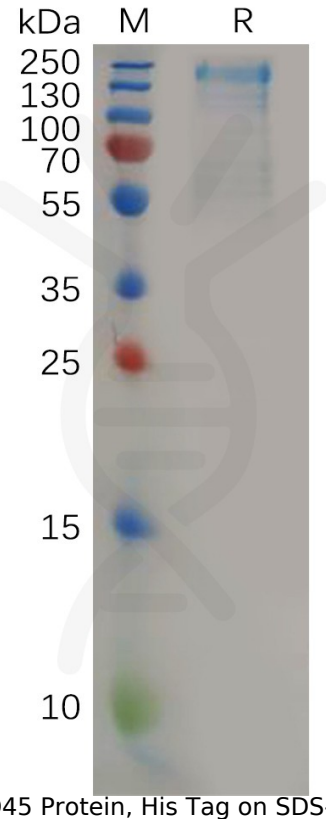


Figure 1. Human CD45 Protein, His Tag on SDS-PAGE under reducing condition.

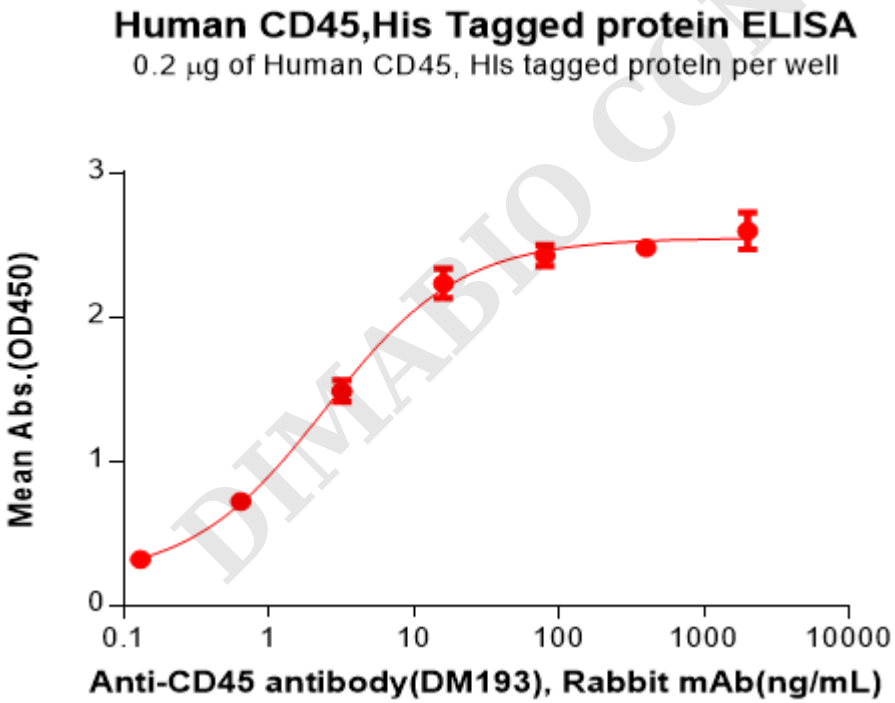


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human CD45 Protein, His Tag(PME100581) can bind Anti-CD45 antibody(DM193), Rabbit mAb in a linear range of 0.64–16.00 ng/mL.

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