

**MOUSE CD45 PROTEIN, HIS TAG****Cat.#:** 12203**Product Name:** Mouse CD45 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** Ptprc;B220;L-CA;Ly-5;T200;CD45R;Lyt-4**Target:** CD45**UNIPROT ID:** P06800**Description:** Recombinant mouse CD45 protein with C-terminal 6xHis tag

**Background:** Enables several functions, including heparan sulfate proteoglycan binding activity; heparin 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]

**Species/Host:** HEK293

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

**Molecular Characterization:** Mouse CD45(Gln26–Lys566) 6×His tag

**Purity:** The purity of the protein is greater than 85% 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.

---

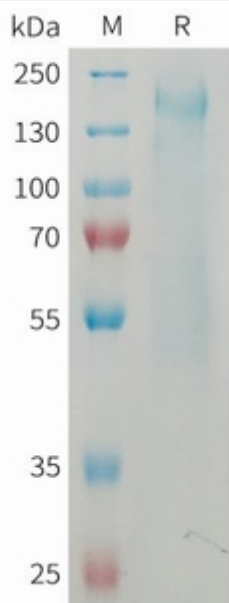


Figure 1. Mouse CD45 Protein, His Tag on SDS-PAGE under reducing condition.