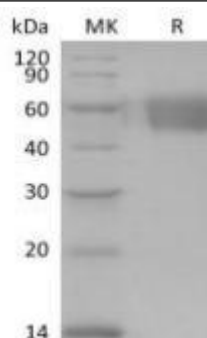


Recombinant Human CD64

Catalog#:P00709 Derived from Human Cells

DESCRIPTION	<p>Recombinant Human High Affinity Immunoglobulin Gamma Fc Receptor I is produced by our Mammalian expression system and the target gene encoding Gln16- Pro288 is expressed with a 6His tag at the C-terminus.</p> <p>Accession#: P12314</p> <p>Known as: High affinity immunoglobulin gamma Fc receptor I; IgG Fc receptor I; Fc-gamma RI; FcRI; Fc-gamma RIA; FcgammaRIa; CD64; FCGR1A</p>
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
SHIPPING	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Lyophilized protein should be stored at $<-20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at $<-20^{\circ}\text{C}$ for 3 months.</p>
RECONSTITUTION	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100$\mu\text{g/ml}$.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass:31.7kDa AP Mol Mass:50-70kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
BACKGROUND	<p>CD64 (Fc γ RI), one of the Fc receptors for IgG, is a membrane glycoprotein that mediates endocytosis, phagocytosis, antibody-dependent cellular cytotoxicity, cytokine release, and superoxide production. CD64 is also structurally distinct, containing an extracellular Ig-interactive region of three Ig-like domains in contrast to the two domains of the low affinity receptors FcγRII and FcγRIII. It is normally expressed on the surfaces of monocytes and macrophages.</p>
SDS-PAGE	 <p>The SDS-PAGE gel shows two lanes, MK and R. The R lane contains a single prominent band at approximately 50-60 kDa, consistent with the expected molecular weight of CD64. The MK lane shows no significant bands, serving as a control.</p>