

CD64 Protein, Mouse (HEK293, His-Avi)

Cat. No.:	HY-P72927
Synonyms:	High affinity immunoglobulin gamma Fc receptor I; Fcgr1; FcRI; CD64
Species:	Mouse
Source:	HEK293
Accession:	P26151 (E25-P297)
Gene ID:	14129
Molecular Weight:	45-50 kDa

PROPERTIES

AA Sequence	<pre> E V V N A T K A V I T L Q P P W V S I F Q K E N V T L W C E G P H L P G D S S T Q W F I N G T A V Q I S T P S Y S I P E A S F Q D S G E Y R C Q I G S S M P S D P V Q L Q I H N D W L L L Q A S R R V L T E G E P L A L R C H G W K N K L V Y N V V F Y R N G K S F Q F S S D S E V A I L K T N L S H S G I Y H C S G T G R H R Y T S A G V S I T V K E L F T T P V L R A S V S S P F P E G S L V T L N C E T N L L L Q R P G L Q L H F S F Y V G S K I L E Y R N T S S E Y H I A R A E R E D A G F Y W C E V A T E D S S V L K R S P E L E L Q V L G P Q S S A P </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CD64 Protein, Mouse (HEK293, His-Avi) at 10 µg/mL (100 µl/well) can bind human IgG1 and the EC ₅₀ is 0.07-0.15 µg/mL. Labeled biotin to CD64 Protein, Mouse (HEK293, His-Avi) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of CD64 Protein, Mouse (HEK293, His-Avi) bound to IgG1 Antibody was 5.6 nM.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	CD64 Protein emerges as a high-affinity receptor specifically designed for the Fc region of immunoglobulins gamma, playing
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a pivotal role in both innate and adaptive immune responses. Its dynamic functionality extends to forming a functional signaling complex through interaction with FCERG1. Additionally, CD64 interacts with FLNA, preventing FCGR1A degradation, and engages with EPB41L2, LAT, and PPL in intricate cellular processes. Furthermore, this receptor establishes connections with HCK and LYN, showcasing its versatility and involvement in various signaling cascades critical for immune system modulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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