Recombinant Rhesus macaque IGFBP1 protein, His-tagged

Cat. No. IGFBP1-822R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus macaque IGFBP1 (Ala48-Asn281) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Rhesus macaque
Source	HEK293
ProteinLength	Ala48-Asn281
Description	Insulin-like growth factor-binding protein 1 (IGFBP1) is also known as placental protein 12 (PP12), which contains oneIGFBP N-terminal domain and one thyroglobulin type-1 domain. IGFBP1 can bindd both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of IGFBP1 can prolongd the half-life of the IGFs and alterd their interaction with cell surface receptors. Furthermore, IGFBP1 can promote cell migration. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Predicted N Terminal	Ala48
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 27.2 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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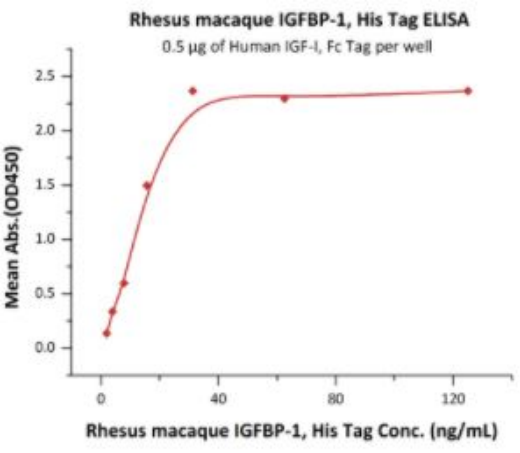
Purity	>98% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IGFBP1
Official Symbol	IGFBP1
Synonyms	AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1
Gene ID	696994
mRNA Refseq	XM_001085935.4
Protein Refseq	XP_001085935.2
UniProt ID	A0A1D5QTL3

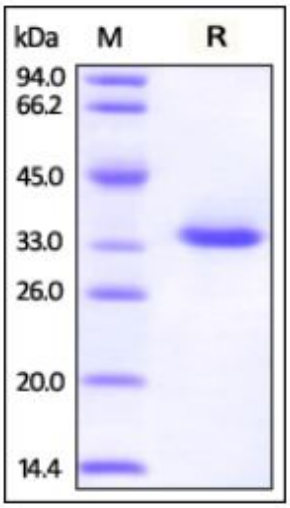
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Bioactivity-ELISA of IGFBP1-822R



Immobilized Human IGF-I, Fc Tag at 5 μg/mL (100 μL/well) can bind Rhesus macaque IGFBP-1, His Tag with a linear range of 2-31 ng/mL (QC tested).

SDS-PAGE of IGFBP1-822R



Rhesus macaque IGFBP-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

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