

Datasheet for ABIN7596130
IGFBP2 Protein (AA 35-305) (His tag)



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Overview

Quantity:	500 µg
Target:	IGFBP2
Protein Characteristics:	AA 35-305
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IGFBP2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	EVLFRCPPCT PERLAACGPP PDAPCAELVR EPGCGCCSVC ARQEGEACGV YIPRCAQTLR CYPNPGSELP LKALVTGAGT CEKRRVGTTP QQVADSDDDH SEGGLVENHV DGTMNMLGGG SSAGRKPLKS GMKELAVFRE KVNEQHRQMG KGAKHLSLEE PKKLRRPPPAR TPCQQELDQV LERISTMRLP DDRGPLEHLY SLHIPNCDKH GRYNLKQCKM SLNGQRGECW CVNPNTGKPI QGAPTIRGDP ECHLFYNEQQ ETGGAHAQSV Q
Purity:	> 85% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its ability to inhibit proliferation using MCF-7 human breast cancer cells in the presence of Mouse IGF-2. The ED50 range \leq 0.7 ug/ml.

Target Details

Target:	IGFBP2
Alternative Name:	IGFBP-2 (IGFBP2 Products)
Background:	<p>IGFBP-2, also known as insulin-like growth factor binding protein 2, is a member of IGFBP superfamily. IGFBPs modulate the biological activities of IGF proteins and have a high affinity for IGFs. IGFBPs are not merely carrier proteins for IGFs, but hold a central position in IGF ligand-receptor interactions through influences on both the bioavailability and distribution of IGFs in the extracellular environment. During development, IGFBP-2 is expressed in a number of tissues. The highest expression level is found in the central nervous system. In adults, high expression levels are also detected in the central nervous system and in a number of reproductive tissues. This protein binds preferentially to IGF-2, exhibiting a 2 - 10 fold higher affinity for IGF-2 than for IGF-1. Also, it is overexpressed in many malignancies and is often correlated with an increasingly malignant status of the tumor, pointing to the potential involvement of IGFBP-2 in tumorigenesis. Recombinant mouse IGFBP-2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.</p>
Molecular Weight:	30.3kDa (277aa)
NCBI Accession:	NP_032368
Pathways:	Myometrial Relaxation and Contraction , Growth Factor Binding , Activated T Cell Proliferation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.