

Datasheet for ABIN7196219
IGFBP6 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	IGFBP6
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IGFBP6 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse IGFBP6/IBP-6 Protein (His Tag)(Active)
Sequence:	Met 1-Gly 238
Characteristics:	A DNA sequence encoding the mouse IGFBP6 (NP_032370.2) (Met 1-Gly 238) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit the biological activity of IGFII on MCF7 human breast adenocarcinoma cells (Karey, K.P. et al. (1988) Cancer Research 48:4083.). The ED50 for this effect is typically 1-4 µg/ml in the presence of 20 ng/mL mouse IGFII.

Target Details

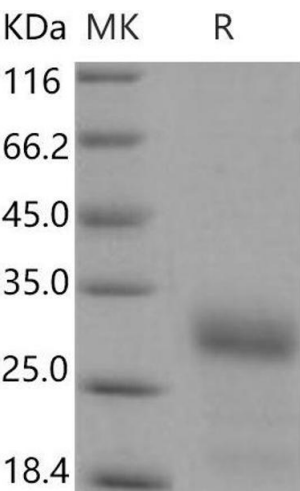
Target:	IGFBP6
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Target Details

Alternative Name:	IGFBP6/IBP-6 (IGFBP6 Products)
Background:	<p>Background: Insulin-like growth factor binding protein 6 (IGFBP6) is a 24- kDa protein that binds insulin-like growth factor 1 (IGF-1) and IGF-2 with high affinity and inhibits IGF action in vitro. The Insulin-like growth factor-binding protein also known as IGFBP serves as a carrier protein for Insulin-like growth factor 1. IGFBPs are clearly distinct but are sharing regions with strong homology. All members of the IGFBP family bind IGF-I and IGF-II with about equal affinity. Insulin-like growth factor (IGF) binding proteins (IGFBPs) have been shown to either inhibit or enhance the action of IGF, or act in an IGF-independent manner in the prostate. IGF-binding protein-4 (IGFBP-4) inhibits IGF-I action in vitro and is the most abundant IGFBP in the rodent arterial wall. IGFBP6 is directly downregulated by the beta-catenin/TCF complex in desmoid tumors, and imply a role for the IGF axis in the proliferation of desmoid tumors. There is mounting evidence that the structure of the IGFBP proteins plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity.</p> <p>Synonym: IGFBP-6</p>
Molecular Weight:	24 kDa
NCBI Accession:	NP_032370
Pathways:	WNT Signaling , Myometrial Relaxation and Contraction

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.