IGFBP1 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	IGFBP1, Blocking Peptide
Full Product Name	IGFBP1 Blocking Peptide
Product Gene Name	IGFBP1 blocking peptide
Product Synonym Names	IBP1; Insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; IGFBP-1; Placental protein 12; PP12
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	IGFBP1 peptide (MBS8243330) is used for blocking the activity of IGFBP1 antibody (MBS8242106)
Molecular Weight	27,904 Da
OMIM	146730
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for IGFBP1 blocking peptide	Blocking (BL)
Application Notes for IGFBP1 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for IGFBP1 blocking peptide	MBS8243330 is a blocking peptide targeting IGFBP1. Reactive in Human. Host: Synthetic. The peptide is used to block Anti-IGFBP1 Antibody reactivity.
Other Notes	Small volumes of IGFBP1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGFBP1. It may not necessarily be applicable to this product.

NCBI GI #	124055
NCBI GeneID	3484
NCBI Accession #	P08833.1
UniProt Primary Accession #	P08833
UniProt Secondary Accession #	Q8IYP5; A4D2F4; D3DVL9
UniProt Related Accession #	P08833
NCBI Official Full Name	Insulin-like growth factor-binding protein 1
NCBI Official Synonym Full Names	insulin like growth factor binding protein 1
NCBI Official Symbol	IGFBP1

NCBI Official Synonym Symbols	AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1
UniProt Protein Name	Insulin-like growth factor-binding protein 1
UniProt Synonym Protein Names	Placental protein 12; PP12
Protein Family	Insulin-like growth factor-binding protein
UniProt Gene Name	IGFBP1
UniProt Synonym Gene Names	IBP1; IBP-1; IGF-binding protein 1; IGFBP-1; PP12
UniProt Entry Name	IBP1_HUMAN
NCBI Protein Information	insulin-like growth factor-binding protein 1
NCBI Summary for IGFBP1	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. [provided by RefSeq, Jul 2008]
UniProt Comments for IGFBP1	IGFBP1: IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. Promotes cell migration. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7p12.3 Cellular Component: extracellular region; extracellular space Molecular Function: insulin-like growth factor binding; insulin-like growth factor I binding; insulin-like growth factor II binding Biological Process: cellular protein metabolic process; insulin receptor signaling pathway; positive regulation of cell growth; regulation of insulin-like growth factor receptor signaling pathway; signal transduction; tissue regeneration; unfolded protein response
Research Articles on IGFBP1	**1.** Insulin-like growth factor 1 receptor blockade can inhibit glioblastoma growth by different mechanisms, including direct effects on the tumor cells as well as indirect anti-angiogenic effects.
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