

Rabbit Anti-Human IGFBP3 Monoclonal Antibody

Cat. No. CAB11559RH Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human IGFBP3
Species	Human
Source	Rabbit
Antigen Description	Insulin-like growth factor-binding proteins (IGFBPs) prolong the half-life of the IGFs , control bioavailability, activity, and distribution of insulin-like growth factor (IGF) through high-affinity IGFBP/IGF complexes. Six high-affinity IGF-binding proteins (IGFBP-1 to -6) have been identified. Human IGFBP3 is a widely expressed protein containing an IGFBP domain at the N-terminus and a thyroglobulin type-I domain. IGFBP3 forms a ternary complex of about 140 ~150 kDa with IGF1 or IGF2 and a glycoprotein insulin-like growth factor acid-labile subunit (ALS), thus alter the interaction of IGFs with their cell surface receptors. IGFBP3 exerts either proapoptotic or growth stimulatory effects depending upon the cellular context. Studies have shown that IGFBP3 can leads to the induction of apoptosis dependent or independent of the IGF-IGF receptor axis, accordingly acts as a negative regulator of tumorigenesis and progressing in certain carcinomas. In addition, IGFBP3 also interacts with the Alzheimers survival peptide humanin (HN), playing a role in neurological disease processes.
Specificity	Human IGFBP3. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

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Immunogen	Recombinant Human IGFBP3 Protein
Isotype	Rabbit IgG
Cross Reactivity	008
Clone	A009
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human IGFBP3 in WB. Using a DAB detection system, the detection limit for Human IGFBP3 is approximately 1 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human IGFBP3. The detection limit for Human IGFBP3 is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human IGFBP3 (rh IGFBP3; Gly28 - Lys 291; NP_000589.2)
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	IGFBP3 insulin-like growth factor binding protein 3 [Homo sapiens]
Official Symbol	IGFBP3
Synonyms	IGFBP3; insulin-like growth factor binding protein 3; insulin-like growth factor-binding protein 3; acid stable subunit of the 140 K IGF complex; binding protein 29; binding protein 53; BP 53; growth hormone dependent binding protein; IBP3; IGF binding protein 3; IBP-3; IGFBP-3; IGF-binding protein 3; growth hormone-dependent binding protein; BP-53;
Gene ID	3486
mRNA Refseq	NM_000598
Protein Refseq	NP_000589
MIM	146732
UniProt ID	P17936
Chromosome Location	7p13-p12
Pathway	Diabetes pathways, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Disease, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs), organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	insulin-like growth factor I binding; insulin-like growth factor binding; metal ion binding;

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protein binding; protein tyrosine phosphatase activator activity;

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