



Anti-IGFBP3 polyclonal antibody [Biotin] (DPABY-445)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-translational modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF. ALS (Acid Labile Subunit) is a liver-derived protein that exists in a ternary complex with Insulin-like Growth Factor (IGF)-binding Protein-3 (IGFBP-3) or IGFBP-5, and either IGF-I or IGF-II. ALS increases the half-life of IGF/IGFBP complexes in circulation.
Specificity	Detects human IGFBP-3 in ELISAs and Western blots. In sandwich immunoassays, less than 0.3% cross-reactivity with recombinant human (rh)IGFBP-1, rhIGFBP-2, rhIGFBP-4, rhIGFBP-5 and rhIGFBP-6 is observed.
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IGFBP-3 . Gly28-Lys291 Accession Number CAA46087
Isotype	IgG
Source/Host	Goat
Species Reactivity	Human
Purification	Antigen Affinity-purified
Conjugate	Biotin
Applications	Western Blot, ELISA Detection (Matched Pair)

Format	Liquid
Size	50 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	IGFBP3 insulin-like growth factor binding protein 3 [Homo sapiens (human)]
Official Symbol	IGFBP3
Synonyms	IGFBP3; insulin-like growth factor binding protein 3; IBP3; BP-53; insulin-like growth factor-binding protein 3; IBP-3; IGFBP-3; binding protein 29; binding protein 53; IGF-binding protein 3; growth hormone-dependent binding protein; acid stable subunit o
Entrez Gene ID	3486
Protein Refseq	NP_000589
UniProt ID	B3KPF0
Chromosome Location	7p13-p12
Pathway	Direct p53 effectors; Integrated Pancreatic Cancer Pathway; Metabolism of proteins; Myometrial Relaxation and Contraction Pathways; Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)
Function	fibronectin binding; insulin-like growth factor I binding; insulin-like growth factor binding; metal ion binding; protein binding; protein tyrosine phosphatase activator activity;