



Anti-IGF2 polyclonal antibody [Biotin] (DPABY-629)

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

PRODUCT INFORMATION

Antigen Description	Insulin-like growth factor (IGF)-I (also known as somatomedin C and somatomedin A) and IGF-II (multiplication stimulating activity or MSA) belong to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGF-I and IGF-II share approximately 70% sequence identity. Both IGF-I and IGF-II are expressed in many tissues and cell types and may have autocrine, paracrine and endocrine functions. Mature IGF-I and IGF-II are highly conserved between the human, bovine and porcine proteins (100% identity), and exhibit cross-species activity. The IGFL (insulin-like growth factor-like) family includes four small (~11 kDa), probably secreted family members in humans and one in mouse. This family shares A and B chain cysteine motifs with the IGF superfamily, and has an additional cysteine motif within an uncleaved region corresponding to the C peptide of the IGF family.
Specificity	Detects mouseIGF-II in ELISAs and Western blots. In sandwich immunoassays, less than 4% cross-reactivity with rhIGF-II is observed and less than 0.1% cross-reactivity with rhIGF-I and rmlGFBP1 is observed.
Immunogen	E. coli-derived recombinant mouse IGF-II . Ala25-Glu91 Accession Number P09535
Isotype	IgG
Source/Host	Goat
Species Reactivity	Mouse
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	Igf2 insulin-like growth factor 2 [Mus musculus (house mouse)]
Official Symbol	IGF2
Synonyms	IGF2; insulin-like growth factor 2; Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362; insulin-like growth factor II; multiplication-stimulating polypeptide;
Entrez Gene ID	16002
Protein Refseq	NP_001116208
UniProt ID	P09535
Chromosome Location	7 F5; 7 87.99 cM
Pathway	Apoptosis; Endochondral Ossification; Hedgehog Signaling Pathway; Hemostasis; IGF1R signaling cascade; IRS-related events triggered by IGF1R; Metabolism of proteins; PI3K/Akt/mTOR signaling pathway;
Function	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; protein binding; protein serine/threonine kinase activator activity; receptor activator activity;