



Anti-IGF1 polyclonal antibody [Biotin] (DPABY-376)

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 human IGF-I in ELISAs and Western blots. In sandwich immunoassays, less than 0.1% recombinant human (rh) IGF-IsR, recombinant mouse (rm) IGF-I, rmIGF-II, rhIGF-II, rhIGFBP-1, rhIGFBP-2, rhIGFBP-3, rhIGFBP-4, rhIGFBP-5, and rhIGFBP-6 is observed.
Immunogen	E. coli-derived recombinant human IGF-I
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	IGF1 insulin-like growth factor 1 (somatomedin C) [Homo sapiens (human)]
Official Symbol	IGF1
Synonyms	IGF1; insulin-like growth factor 1 (somatomedin C); IGF1; IGF-I; IGF1A; insulin-like growth factor I; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor IA; insulin-like growth factor IB;
Entrez Gene ID	3479
Protein Refseq	NP_000609
UniProt ID	P05019
Chromosome Location	12q23.2
Pathway	AMPK signaling pathway; Adipogenesis; Aldosterone-regulated sodium reabsorption; Apoptosis; Cardiac Progenitor Differentiation; Dilated cardiomyopathy; Endochondral Ossification; Focal Adhesion;
Function	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; integrin binding; protein binding;