



# Anti-IGF1 polyclonal antibody [Biotin] (DPABY-454)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	Detects mouse IGF-I in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human (rh)IGF-I is observed and less than 0.1% cross-reactivity with recombinant mouse (rm)IGF-II is observed.
<b>Immunogen</b>	E. coli-derived recombinant mouse IGF-I . Gly33-Ala102 Accession Number Q8CAR0
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, ELISA Detection (Matched Pair)
<b>Format</b>	Liquid

<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">Igf1 insulin-like growth factor 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	IGF1
<b>Synonyms</b>	IGF1; insulin-like growth factor 1; Igf-1; Igf-I; C730016P09Rik; insulin-like growth factor I; somatomedin;
<b>Entrez Gene ID</b>	<a href="#">16000</a>
<b>Protein Refseq</b>	<a href="#">NP_001104744</a>
<b>UniProt ID</b>	<a href="#">E9PU89</a>
<b>Chromosome Location</b>	10 C1; 10 43.7 cM
<b>Pathway</b>	AMPK signaling pathway; Adipogenesis; Aldosterone-regulated sodium reabsorption; Androgen Receptor Signaling Pathway; Apoptosis; Dilated cardiomyopathy; Endochondral Ossification; Focal Adhesion;
<b>Function</b>	growth factor activity; hormone activity; insulin receptor binding; insulin-like growth factor receptor binding; integrin binding; protein binding; protein serine/threonine kinase activator activity; steroid binding;