



# Anti-IGF1 monoclonal antibody, clone 67509 (DCABY-3923)

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 human IGF-I in ELISAs and Western blots. In ELISAs, this antibody does not cross-react with recombinant mouse (rm) IGF-I, rmlGF-II, or recombinant human IGF-II.
<b>Immunogen</b>	E. coli-derived recombinant human IGF-I. Gly49-Ala118 Accession Number P01343
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	67509
<b>Purification</b>	Protein A or G purified from ascites
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, ELISA Capture (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	500 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.
<b>Preservative</b>	None
<b>Storage</b>	Lyophilized samples are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Upon reconstitution, the antibody can be stored at 2 to 8 °C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">IGF1 insulin-like growth factor 1 (somatomedin C) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	IGF1
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">3479</a>
<b>Protein Refseq</b>	<a href="#">NP_000609</a>
<b>UniProt ID</b>	<a href="#">P05019</a>
<b>Chromosome Location</b>	12q23.2
<b>Pathway</b>	AMPK signaling pathway; Adipogenesis; Aldosterone-regulated sodium reabsorption; Apoptosis; Cardiac Progenitor Differentiation; 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;