



# Anti-IGF2 monoclonal antibody, clone 233505 (DCABY-4000)

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-II in ELISAs and Western blots. In ELISAs, this antibody shows less than 6% cross-reactivity with recombinant human (rh) IGF-IR and no cross-reactivity with rhIGF-I, rmIGF-I, and rhIGF-II. In Western blots, this antibody shows 100% cross-reactivity with rhIGF-II.
<b>Immunogen</b>	E. coli-derived recombinant mouse IGF-II. Ala25-Glu91 Accession Number P09535
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	233505
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<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 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 from date of receipt, 2 to 8 °C, reconstituted. 6 months from date of receipt, -20 to -70 °C, reconstituted.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Igf2 insulin-like growth factor 2 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	IGF2
<b>Synonyms</b>	IGF2; insulin-like growth factor 2; Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362; insulin-like growth factor II; multiplication-stimulating polypeptide;
<b>Entrez Gene ID</b>	<a href="#">16002</a>
<b>Protein Refseq</b>	<a href="#">NP_001116208</a>
<b>UniProt ID</b>	<a href="#">P09535</a>
<b>Chromosome Location</b>	7 F5; 7 87.99 cM
<b>Pathway</b>	Apoptosis; Endochondral Ossification; Hedgehog Signaling Pathway; Hemostasis; IGF1R signaling cascade; IRS-related events triggered by IGF1R; Metabolism of proteins; PI3K/Akt/mTOR signaling pathway;
<b>Function</b>	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;