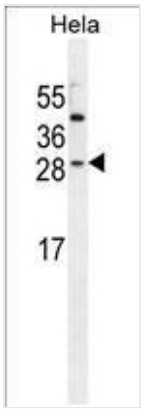
IGF2 Antibody – Rabbit Polyclonal

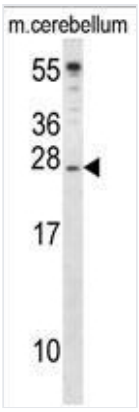
PRODUCT OVERVIEW

Product Name	IGF2, Polyclonal Antibody
Full Product Name	IGF2, ID (R54) (IGF2, Insulin-like growth factor II, Somatomedin-A, Insulin-like growth factor II Ala-25 Del, Preptin)
Product Gene Name	anti-IGF2 antibody
Product Synonym Names	Anti -IGF2, ID (R54) (IGF2, Insulin-like growth factor II, Somatomedin-A, Insulin-like growth factor II Ala-25 Del, Preptin)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human, mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	20,140 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (2150346..2179611, complement). Location: 11p15.5
OMIM	147470
3D Structure	ModBase 3D Structure for P01344
Immunogen	IGF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 46-77 amino acids from the Central region of human IGF2.
Product Categories/Family for anti-IGF2 antibody	Antibodies; Abs to Insulin
Applications Tested/Suitable for anti-IGF2 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-IGF2 antibody	Suitable for use in Western Blot, Immunohistochemistry, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100 Flow Cytometry: 1:10-50
Related Product Information for anti-IGF2 antibody	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from the paternal allele, and epigenetic changes at this locus are associated with Wilms tumour, Beckwith-Wiedemann syndrome, rhabdomyosarcoma, and Silver-Russell syndrome. A read-through INS-IGF2 gene exists, whose 5' region overlaps the INS gene and the 3' region overlaps this gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-IGF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

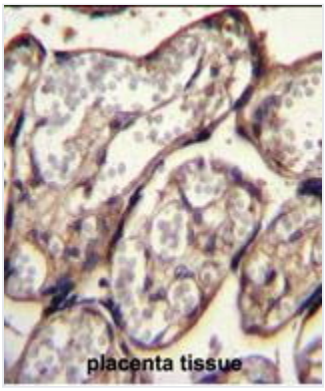
Searchable Terms for IGF2 purchase	MBS6003413 is an antibody targeting IGF2. Also known as IGF2, ID (R54) (IGF2, Insulin-like growth factor II, Somatomedin-A, Insulin-like growth factor II Ala-25 Del, Preptin). Reactive in Human, Mouse. Host: Rabbit.



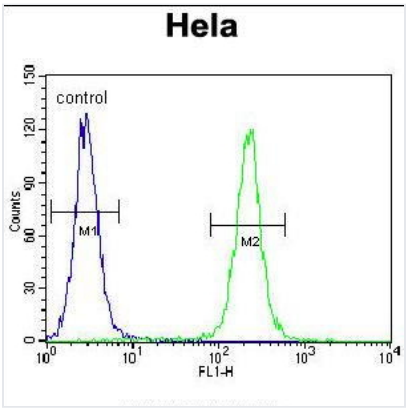
Western Blot (WB) of anti-IGF2 antibody
Western Blot analysis in Hela cell line lysates (35ug/lane) using MBS6003413. This demonstrates that MBS6003413 detected the IGF2 protein (arrow).



Western Blot (WB) of anti-IGF2 antibody
Western Blot analysis in mouse cerebellum tissue lysates (35ug/lane) using MBS6003413. This demonstrates that MBS6003413 detected the IGF2 protein (arrow).



Immunohistochemistry (IHC) of anti-IGF2 antibody
Immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue using MBS6003413 followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MBS6003413 for immunohistochemistry.



Flow Cytometry (FC/FACS) of anti-IGF2 antibody
Flow Cytometric analysis of Hela cells using MBS6003413 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGF2. It may not necessarily be applicable to this product.

NCBI GI #	189083846
NCBI GeneID	3481
NCBI Accession #	NP_001121070.1
UniProt Primary Accession #	P01344
UniProt Secondary Accession #	P78449; Q14299; Q1WM26; Q9UC68; Q9UC69; B3KX48; B7WP08; C9JAF2; E3UN45
UniProt Related Accession #	P01344
GenBank Nucleotide #	NM_001127598.1
NCBI Official Full Name	insulin-like growth factor II isoform 2
NCBI Official Synonym Full Names	insulin-like growth factor 2 (somatomedin A)
NCBI Official Symbol	IGF2
NCBI Official Synonym Symbols	IGF-II; PP9974; C11orf43
UniProt Protein Name	Insulin-like growth factor II

UniProt Synonym Protein Names	Somatomedin-A
Protein Family	Insulin-like growth factor
UniProt Gene Name	IGF2
UniProt Synonym Gene Names	IGF-II
UniProt Entry Name	IGF2_HUMAN
NCBI Protein Information	insulin-like growth factor II; somatomedin-A; insulin-like growth factor type 2
UniProt Comments for IGF2	IGF2: The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development. Epigenetic changes of DNA hypomethylation in IGF2 are a cause of Silver-Russell syndrome (SRS). A clinically heterogeneous condition characterized by severe intrauterine growth retardation, poor postnatal growth, craniofacial features such as a triangular shaped face and a broad forehead, body asymmetry, and a variety of minor malformations. The phenotypic expression changes during childhood and adolescence, with the facial features and asymmetry usually becoming more subtle with age. Belongs to the insulin family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: extracellular space; plasma membrane; extracellular region Molecular Function: protein serine/threonine kinase activator activity; insulin-like growth factor receptor binding; protein binding; growth factor activity; hormone activity; receptor activator activity; insulin receptor binding Biological Process: positive regulation of catalytic activity; response to nicotine; genetic imprinting; multicellular organismal development; positive regulation of glycogen biosynthetic process; exocrine pancreas development; female pregnancy; positive regulation of activated T cell proliferation; response to estradiol stimulus; response to radiation; platelet degranulation; positive regulation of MAPKKK cascade; regulation of transcription, DNA-dependent; positive regulation of cell proliferation; skeletal development; response to nutrient levels; response to drug; platelet activation; positive regulation of mitosis; glucose metabolic process; memory; osteoblast differentiation; positive regulation of protein kinase B signaling cascade; positive regulation of peptidyl-tyrosine phosphorylation; organ morphogenesis; cellular protein metabolic process; response to ethanol; insulin receptor signaling pathway; striated muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; positive regulation of insulin receptor signaling pathway; positive regulation of protein amino acid phosphorylation; blood coagulation Disease: Silver-russell Syndrome; Growth Restriction, Severe, With Distinctive Facies; Beckwith-wiedemann Syndrome; Wilms Tumor 1
Research Articles on IGF2	**1.** This is the first report to implicate IGFBP-6 as a suppressor of cellular proliferation and IGF-II as an inducer of cellular contractility in this connective tissue disease.
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