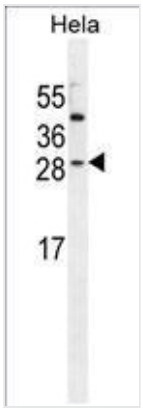
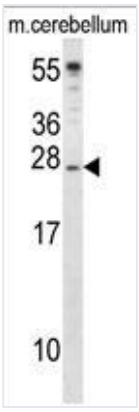
IGF2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

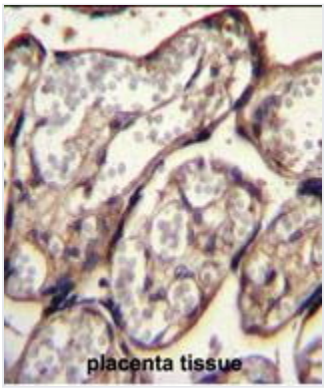
Product Name	IGF2, Polyclonal Antibody
Full Product Name	IGF2, ID (R54) (IGF2, Insulin-like growth factor II, Somatomedin-A, Insulin-like growth factor II Ala-25 Del, Preptin) (MaxLight 550)
Product Gene Name	anti-IGF2 antibody
Product Synonym Names	IGF2; Insulin-like growth factor II; Somatomedin-A; 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. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human IGF2. Species Crossreactivity: mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	7.6 kDa (68aa), confirmed by MALDI-TOF
OMIM	gene+phenotype 180860
3D Structure	ModBase 3D Structure for P01344
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 39-68 in the Central region of human IGF2. Swiss/UniProt Accession: P01344.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-IGF2 antibody	Antibodies; Insulin
Applications Tested/Suitable for anti-IGF2 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-IGF2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IGF2 antibody	MBS6309460 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) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-IGF2 antibody	1. Adkins, R.M., et al. Pediatr. Res. 68(5):429-434(2010). 2. Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) 3. Li, J., et al. Mol. Biol. Rep. (2010) In press 4. Hsieh, Y.Y., et al. Anticancer Res. 30(6):2203-2208(2010) 5. Turan, N., et al. PLoS Genet. 6 (7), E1001033 (2010).
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.



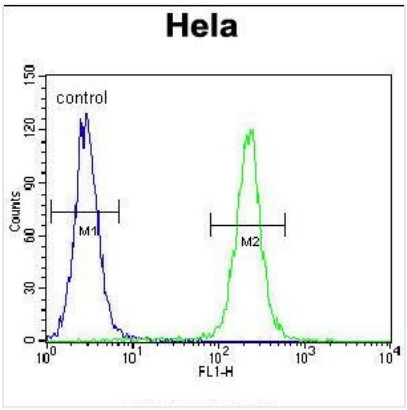
Western Blot (WB) of anti-IGF2 antibody
Western Blot analysis in Hela cell line lysates (35ug/lane) usingMBS6003413. This demonstrates that MBS6003413 detected the IGF2 protein (arrow).



Western Blot (WB) of anti-IGF2 antibody
Western Blot analysis in mouse cerebellum tissue lysates (35ug/lane) usingMBS6003413. 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 #	4504609
NCBI GeneID	3481
NCBI Accession #	NP_000603
UniProt Primary Accession #	P01344
UniProt Secondary Accession #	P78449; Q14299; Q1WM26; Q9UC68; Q9UC69; B3KX48; B7WP08; C9JAF2; E3UN45
UniProt Related Accession #	P01344
GenBank Nucleotide #	NM_000612.5
NCBI Official Full Name	insulin-like growth factor II isoform 1 preproprotein
NCBI Official Synonym Full Names	insulin like growth factor 2
NCBI Official Symbol	IGF2
NCBI Official Synonym Symbols	GRDF; IGF-II; PP9974; C11orf43
UniProt Protein Name	Insulin-like growth factor II
UniProt Synonym Protein Names	Somatomedin-ACleaved into the following 3 chains:Insulin-like growth factor II; Insulin-like growth factor II Ala-25 Del; Preptin

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
NCBI Summary for IGF2	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. [provided by RefSeq, Oct 2010]
Research Articles on IGF2	**1.** Aberrant IGF2 imprinting may be an intrinsic epigenetic control mechanism that enhances stemness, self-renewal and chemo/radiotherapy resistance in cancer stem cells.
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