

IGF2 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM2070b**Specification**

IGF2 Antibody - Product Information

Application	WB,E
Primary Accession	P01344
Other Accession	NP_000603.1
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Antigen Region	39-68

IGF2 Antibody - Additional Information**Gene ID** 3481**Other Names**

Insulin-like growth factor II, IGF-II, Somatomedin-A, Insulin-like growth factor II, Insulin-like growth factor II Ala-25 Del, Preptin, IGF2

Target/Specificity

This IGF2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 39-68 amino acids from human IGF2.

Dilution

WB~~1:500~1000

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IGF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IGF2 Antibody - Protein Information**Name** IGF2 ([HGNC:5466](#))

Function The insulin-like growth factors possess growth-promoting activity (By similarity). Major fetal growth hormone in mammals. Plays a key role in regulating fetoplacental development. IGF2 is influenced by placental lactogen. Also involved in tissue differentiation. In adults, involved in

glucose metabolism in adipose tissue, skeletal muscle and liver (Probable). Acts as a ligand for integrin which is required for IGF2 signaling (PubMed:[28873464](#)). Positively regulates myogenic transcription factor MYOD1 function by facilitating the recruitment of transcriptional coactivators, thereby controlling muscle terminal differentiation (By similarity). Inhibits myoblast differentiation and modulates metabolism via increasing the mitochondrial respiration rate (By similarity).

Cellular Location

Secreted.

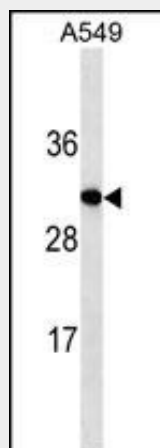
Tissue Location

Expressed in heart, placenta, lung, liver, muscle, kidney, tongue, limb, eye and pancreas.

IGF2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IGF2 Antibody - Images

IGF2 Antibody (Cat. #AM2070b) western blot analysis in A549 cell line lysates (35µg/lane). This demonstrates the IGF2 antibody detected the IGF2 protein (arrow).

IGF2 Antibody - Background

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.

IGF2 Antibody - References

Adkins, R.M., et al. Pediatr. Res. 68(5):429-434(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Li, J., et al. Mol. Biol. Rep. (2010) In press :
Hsieh, Y.Y., et al. Anticancer Res. 30(6):2203-2208(2010)
Turan, N., et al. PLoS Genet. 6 (7), E1001033 (2010) :