

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

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**IGF2 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P01344</a>
Other Accession	<a href="#">NP_000603.1</a>
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

**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.

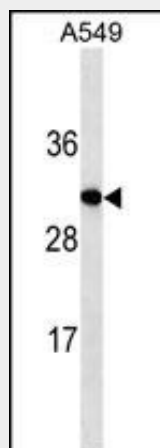
**Tissue Location**

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) :