

IGF2 Antibody (Center R54) Blocking peptide
Synthetic peptide
Catalog # BP11220c

Specification

IGF2 Antibody (Center R54) Blocking peptide - Product Information

Primary Accession [P01344](#)

IGF2 Antibody (Center R54) Blocking peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IGF2 Antibody (Center R54) Blocking peptide - 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: <http://www.uniprot.org/citations/28873464> target="_blank">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 (Center R54) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

IGF2 Antibody (Center R54) Blocking peptide - Images

IGF2 Antibody (Center R54) Blocking peptide - 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 (Center R54) Blocking peptide - 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) :

IGF2 Antibody (Center R54) Blocking peptide - Citations

- [CD44+ fibroblasts increases breast cancer cell survival and drug resistance via IGF2BP3-CD44-IGF2 signalling.](#)