ARG65996
anti-IGF2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IGF2
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, Neut
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IGF2
Species	Human
Immunogen	E. coli derived recombinant Human IGF2. (AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE)
Conjugation	Un-conjugated
Alternate Names	Somatomedin-A; Insulin-like growth factor II; IGF-II; PP9974; GRDF; C11orf43; T3M-11-derived growth factor

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG65997 as a detection antibody
IHC-P	0.5 - 5 µg/ml
Neut	3.1 - 4.6 µg/ml (To yield [ND50] of the biological activity of hIGF-II (10 ng/ml))

Application Note

IHC-P: Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min or incubate tissue section in a buffer (proteinase K) at RT for 10 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

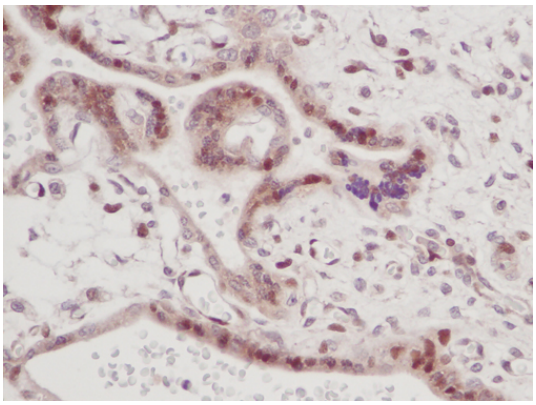
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

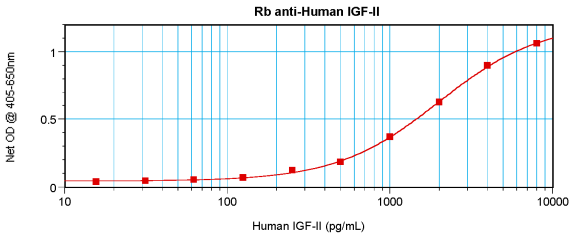
Database links	GeneID: 3481 Human Swiss-port # P01344 Human
Gene Symbol	IGF2
Gene Full Name	insulin-like growth factor 2
Background	This gene encodes a member of the insulin family of polypeptide growth factors, which are involved in development and growth. It is an imprinted gene, expressed only from 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. [provided by RefSeq, Oct 2010]
Function	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. Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3. [UniProt]
Calculated Mw	20 kDa
PTM	O-glycosylated with core 1 or possibly core 8 glycans. Thr-96 is a minor glycosylation site compared to Thr-99. Proteolytically processed by PCSK4, proIGF2 is cleaved at Arg-128 and Arg-92 to generate big-IGF2 and mature IGF2.

Images



ARG65996 anti-IGF2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of normal Human placenta. The recommended ARG65996 anti-IGF2 antibody concentration is 0.5 µg/ml - 5.0 µg/ml. An HRP-labeled polymer detection system was used with DAB chromogen. Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min or incubate tissue section in a buffer (proteinase K) at RT for 10 min.



ARG65996 anti-IGF2 antibody standard curve image

Sandwich ELISA: ARG65996 anti-IGF2 antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG65997 anti-IGF2 antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density reading at 405 - 650 nm.