

# Product datasheet

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ARG41069 anti-IGF2 antibody

Package: 100 μl Store at: -20°C

# **Summary**

Product Description Rabbit Polyclonal antibody recognizes IGF2

Tested Reactivity Hu

Tested Application ICC/IF, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name IGF2

Species Human

Immunogen Synthetic peptide derived from Human IGF2.

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
	ICC/IF	1:50 - 1:100
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

# **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

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. 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

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]

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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.

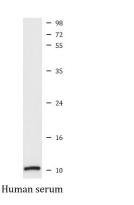
Proteolytically processed by PCSK4, proIGF2 is cleaved at Arg-128 and Arg-92 to generate big-IGF2 and

mature IGF2. [UniProt]

Cellular Localization Secreted. [UniProt]

## **Images**

Function



#### ARG41069 anti-IGF2 antibody WB image

Western blot: Human serum lysate stained with ARG41069 anti-IGF2 antibody.