

## ARG56664 anti-IGF1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes IGF1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, IHC-P, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IGF1
Species	Human
Immunogen	E.coli derived Recombinant Human IGF1. (GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA)
Conjugation	Un-conjugated
Alternate Names	MGF; Insulin-like growth factor I; Mechano growth factor; Somatomedin-C; IGF1; IGF-I

### Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56774 as a detection antibody
	IHC-P	0.25 µg/ml
	Neut	0.67 - 1.0 µg/ml (To yield [ND50] of the biological activity of hIGF - I (5.0 ng/ml) )
	WB	0.1 - 0.2 µg/ml

**Application Note** Antigen retrieval for IHC-P: Boil the paraffin sections in 10 mM citrate buffer (pH 6.0) for 30 minutes.

\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

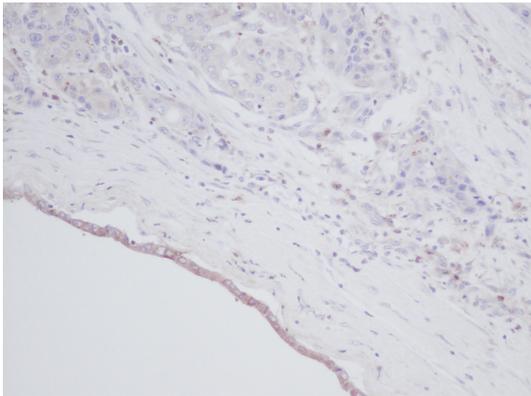
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

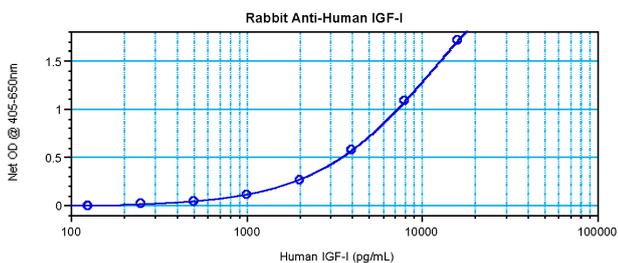
Gene Symbol	IGF1
Gene Full Name	insulin-like growth factor 1 (somatomedin C)
Background	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
Function	The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. May play a role in synapse maturation. [UniProt]
Highlight	Related products: <a href="#">IGF1 antibodies</a> ; <a href="#">IGF1 ELISA Kits</a> ; <a href="#">IGF1 Duos / Panels</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ;
Calculated Mw	22 kDa

## Images



ARG56664 anti-IGF1 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human breast invasive ductal carcinoma. The recommended ARG56664 anti-IGF1 antibody concentration is 0.25 µg/ml with an overnight incubation at 4°C. An HRP-labeled polymer detection system was used with a DAB chromogen.



ARG56664 anti-IGF1 antibody standard curve image

Sandwich ELISA: ARG56664 anti-IGF1 antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56774 anti-IGF1 antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.