

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; IGF-I; IGF-I

Application Instructions

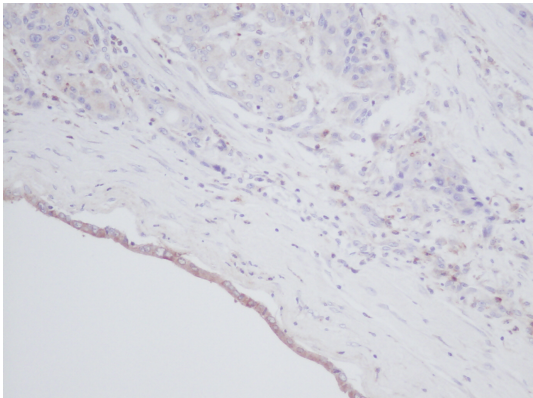
Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56774 as a detection antibody
	IHC-P	0.25 µg/ml
	Neut	0.67 - 1.0 µg/ml (To yield [ND50] of the biological activity of hIGF - I (5.0 ng/ml))
	WB	0.1 - 0.2 µg/ml
Application Note	Antigen retrieval for IHC-P: Boil the paraffin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

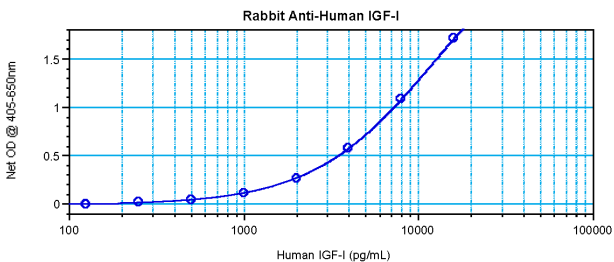
Note	For laboratory research only, not for drug, diagnostic or other use.
Bioinformation	
Gene Symbol	IGF1
Gene Full Name	insulin-like growth factor 1 (somatomedin C)
Background	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved 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: IGF1 antibodies ; IGF1 ELISA Kits ; IGF1 Duos / Panels ; Anti-Rabbit IgG secondary antibodies ;
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.