ARG56665
anti-IGF1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes IGF1
Tested Reactivity	Ms
Tested Application	ELISA, Neut, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	IGF1
Species	Mouse
Immunogen	E.coli derived Recombinant Mouse IGF1. (GPETLCGAEL VDALQFVCGP RGFYFNKPTG YGSSIRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPTKAA)
Conjugation	Un-conjugated
Alternate Names	MGF; Insulin-like growth factor I; Mechano growth factor; Somatomedin-C; IGFI; IGF-I

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56775 as a detection antibody
Neut	12.0 - 14.0 µg/ml (To yield [ND50] of the biological activity of Murine IGF - I (200 ng/ml))
WB	0.1 - 0.2 µg/ml

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

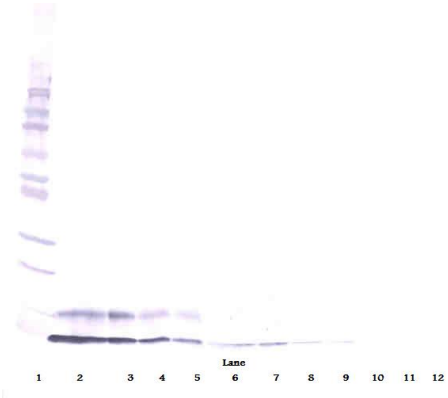
Properties

Form	Liquid
Purification	Affinity 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

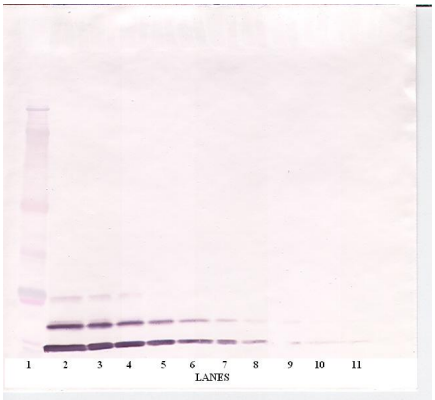
Database links	GeneID: 16000 Mouse Swiss-port # P05017 Mouse
Gene Symbol	Igf1
Gene Full Name	insulin-like growth factor 1
Background	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The 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]
Calculated Mw	22 kDa

Images



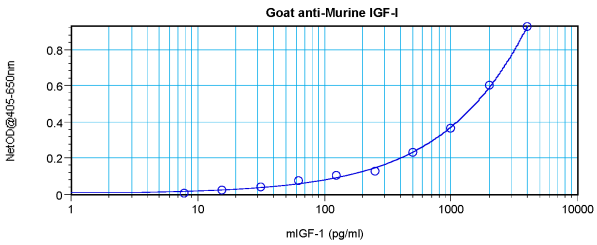
ARG56665 anti-IGF1 antibody WB image

Western blot: 250 - 0.24 ng of Mouse IGF-I stained with ARG56665 anti-IGF1 antibody, under reducing conditions.



ARG56665 anti-IGF1 antibody WB image

Western blot: 250 - 0.24 ng of Mouse IGF-I stained with ARG56665 anti-IGF1 antibody, under non-reducing conditions.



ARG56665 anti-IGF1 antibody standard curve image

Sandwich ELISA: ARG56665 anti-IGF1 antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56775 anti-IGF1 antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.