

ARG54644
anti-IGF1 antibody [O.T.61]Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [O.T.61] recognizes IGF1
Tested Reactivity	Ms, Rat
Predict Reactivity	Chk
Tested Application	IHC-P, IP, Neut, WB
Specificity	Recognizes human Insulin-Like Growth Factor I (IGF1), Mr ~17kD (migrates to ~7kD). Crossreactivity with IGF-II is ~40%.
Host	Mouse
Clonality	Monoclonal
Clone	O.T.61
Isotype	IgG1, kappa
Target Name	IGF1
Species	Human
Immunogen	Human insulin-like growth factor I (IGF1) purified from human plasma.
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
	IHC-P	10 µg/ml
	IP	5 µg for 100 ng IGF1
	Neut	10 - 20 µg/ml
	WB	0.5-2 µg/ml of antibody detects 100 ng of IGF1 under non-reducing conditions.
Application Note	Neut: 10-20 µg/ml can inhibit the activity of 10 ng/ml of IGF1 as determined by testing with chicken embryo fibroblasts (CEF) using an ATP endpoint assay. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	IHC-P: formalin-fixed, paraffin-embedded skin sections.	

Properties

Form	Liquid
Purification	Affinity purification with Protein G.

Buffer	0.1M Tris-glycine (pH 7.4), 0.15 mM sodium chloride and 0.1mM EDTA
Stabilizer	0.1mM EDTA
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 GeneID: 24482 Rat Swiss-port # P05017 Mouse Swiss-port # P08025 Rat
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. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2009]
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]
Research Area	Cancer antibody; Developmental Biology antibody; Signaling Transduction antibody
Calculated Mw	22 kDa