

Anti-IGF1/IGF-I Antibody (9D219)

Product Details

Ig Type:	hIgG2
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9D219
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. IHC image of TMAH-00598 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Human IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>2. IHC image of TMAH-00598 diluted at 1:100 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Human IgG labeled by HRP and visualized using 0.05% DAB.</p>
Application:	ELISA,IHC
Recommended	IHC:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human IGF1 Protein
Antigen Species:	Human
Gene ID:	3479
Uniprot ID:	P05019
Synonyms:	IGF-1;MGF;IGF-I;insulin-like growth factor 1;IGF-I;IGFI;IGF1A;somatomedin C
Biology Area:	Cancer, Developmental biology, Signal transduction

Research Background

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 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. Ca(2+)-dependent exocytosis of IGF1 is required for sensory perception of smell in the olfactory bulb. Acts as a ligand for IGF1R. Binds to the alpha subunit of IGF1R, leading to the activation of the intrinsic tyrosine kinase activity which autophosphorylates tyrosine residues in the beta subunit thus initiating a cascade of down-stream signaling events leading to activation of the PI3K-AKT/PKB and the Ras-MAPK pathways. Binds to integrins ITGA5:ITGB3 and ITGA6:ITGB4. Its binding to integrins and subsequent ternary complex formation with integrins and IGF1R are essential for IGF1 signaling. Induces the phosphorylation and activation of IGF1R, MAPK3/ERK1, MAPK1/ERK2 and AKT1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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