Anti-IGF1 antibody [EPR5098(2)] ab133542

Overview

Product name: Anti-IGF1 antibody [EPR5098(2)]
Description: Rabbit monoclonal [EPR5098(2)] to IGF1
Host species: Rabbit
Tested applications: Suitable for: ELISA, WB
Unsuitable for: IHC-P or IP
Species reactivity: Reacts with: Recombinant fragment
Predicted to work with: Human
Immunogen: Synthetic peptide corresponding to residues in Human IGF1 (UniProt ID: P05019).
Positive control: IGF1 recombinant protein
General notes: Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D): K_D = 4.20 x 10^-11 M

Storage buffer: pH: 7.40
Preservative: 0.05% Sodium azide
 Constituents: 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPR5098(2)
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab133542 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Application notes: Is unsuitable for IHC-P or IP.

Target

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.

Involvement in disease: Defects in IGF1 are the cause of insulin-like growth factor I deficiency (IGF1 deficiency) [MIM:608747]. IGF1 deficiency is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation.

Sequence similarities: Belongs to the insulin family.

Cellular localization: Secreted.

Form: There are 2 isoforms produced by alternative splicing. Isoform 1 also known as: IGF-IB; Isoform 2 also known as: IGF-IA.
Western blot - Anti-IGF1 antibody [EPR5098(2)] (ab133542)

Anti-IGF1 antibody [EPR5098(2)] (ab133542) at 1/1000 dilution + Recombinant human IGF-I fragment at 0.005 µg

**Predicted band size**: 22 kDa

The recombinant IGF-I fragment corresponds to amino acids 49-118 of human IGF-1 with the molecular weight of 10kDa.

ELISA - Anti-IGF1 antibody [EPR5098(2)]

Primary antibody, ab33542 was used at concentrations between 0.1 - 1000ng/ml. An Alkaline Phosphatase AffiniPure Goat Anti-Rabbit IgG (H+L) was used as the secondary antibody at 1:2500 dilution. Antigen concentration was 1000ng/ml.
Equilibrium disassociation constant ($K_D$)

Learn more about $K_D$

Click here to learn more about $K_D$

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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