**Anti-IGF1 antibody [EPR5098(2)] ab133542**

**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: Human

**Immunogen**
Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

**Positive control**
IGF1 recombinant protein

**General notes**
This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

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

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

**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 × 10^{-11} M

Learn more about K_D
Storage buffer: pH: 7.2  
Preservative: 0.05% Sodium azide  
Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

Purity: Protein A purified  
Clonality: Monoclonal  
Clone number: EPR5098(2)  
Isotype: IgG

Applications

The Abpromise guarantee: 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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<th>Abreviews</th>
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<td>ELISA</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐☆☆ (1)</td>
<td>1/1000 - 1/10000. Predicted molecular weight: 22 kDa. Tested with recombinant protein.</td>
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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.

Images
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.

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**
Why choose a recombinant antibody?

- Research with confidence
- Consistent and reproducible results
- Long-term and scalable supply
- Recombinant technology
- Success from the first experiment
- Confirmed specificity
- Ethical standards compliant
- Animal-free production

Anti-IGF1 antibody [EPR5098(2)] (ab133542)

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

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