

Product datasheet

Anti-IGF2 antibody ab9574

★★★★☆ [20 Abreviews](#) [105 References](#) [2 Images](#)

Overview

Product name	Anti-IGF2 antibody
Description	Rabbit polyclonal to IGF2
Host species	Rabbit
Tested applications	Suitable for: WB, Sandwich ELISA
Species reactivity	Reacts with: Recombinant fragment
Immunogen	Recombinant full length protein corresponding to Human IGF2. Highly pure (>98%) recombinant hIGF-2 (human Insulin Like Growth Factor-2). Database link: P01344
General notes	<p>Although some customers have been successful in IHC we no longer batch test in this application.</p> <p>Insulin Like Growth Factor-2 (IGF-2) is a polypeptide growth factor, which stimulates the proliferation of a wide range of cell types</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Lyophilized:Reconstitute with 200µl of sterile water. The reconstituted antibody is stable for at least 2 weeks at 2-8C and at least 6 months at -20C
Storage instructions	Shipped at 4°C. Store at -20°C.
Purity	Immunogen affinity purified
Primary antibody notes	Insulin Like Growth Factor-2 (IGF-2) is a polypeptide growth factor, which stimulates the proliferation of a wide range of cell types
Clonality	Polyclonal
Isotype	IgG

Light chain type

unknown

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9574 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ (6)	Use at an assay dependent concentration. To detect hIGF-2 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hIGF-2 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.
Sandwich ELISA		Use at an assay dependent concentration. To detect hIGF-II by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ab83142 , allows the detection of at least 0.2 - 0.4 ng/well of recombinant hIGF-II.

Target

Function

The insulin-like growth factors possess growth-promoting activity. In vitro, they are potent mitogens for cultured cells. IGF-II is influenced by placental lactogen and may play a role in fetal development.

Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.

Involvement in disease

Epigenetic changes of DNA hypomethylation in IGF2 are a cause of Silver-Russell syndrome (SIRS) [MIM:180860]. SIRS is a clinically heterogeneous condition characterized by severe intrauterine growth retardation, poor postnatal growth, craniofacial features such as a triangular shaped face and a broad forehead, body asymmetry, and a variety of minor malformations.

Sequence similarities

Belongs to the insulin family.

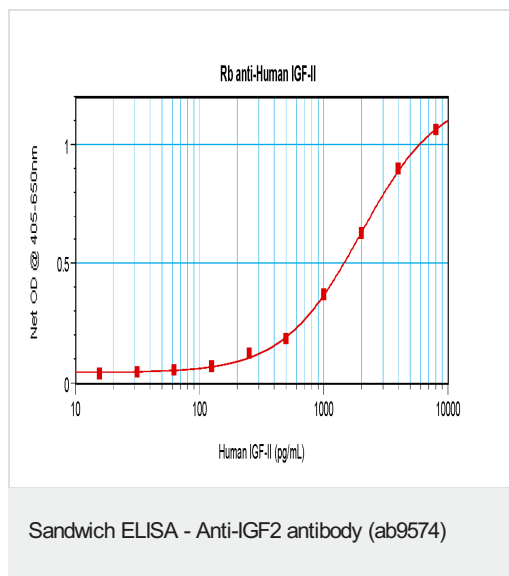
Post-translational modifications

O-glycosylated with a core 1 or possibly core 8 glycan.

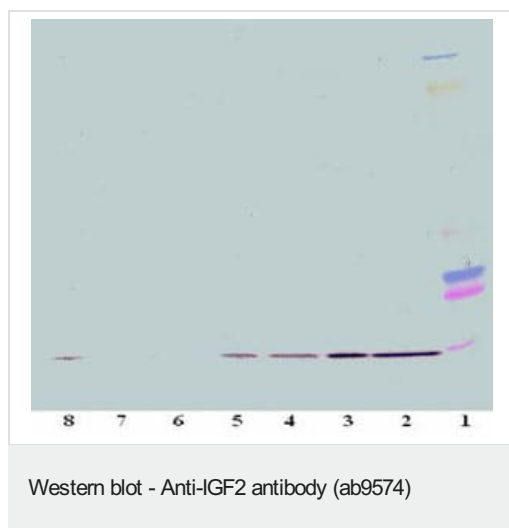
Cellular localization

Secreted.

Images



ab9574 detecting IGF2 using sandwich ELISA



Rabbit Anti-Human IGF-II against Human IGF-II. Antibody concentration: 0.10 ug/ml Lower limit of detection: 3.91 ng/lane
Molecular Weight: 7.5 kDa

Lane 1: Marker
Lane 2: 250 ng
Lane 3: 125 ng
Lane 4: 62.5 ng
Lane 5: 31.25 ng
Lane 6: 15.625 ng
Lane 7: 7.8 ng
Lane 8: 3.9 ng

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