Anti-IGF2 antibody ab123812

Overview

Product name: Anti-IGF2 antibody
Description: Goat polyclonal to IGF2
Host species: Goat
Tested applications: Suitable for: IHC-P
Species reactivity: Reacts with: Human, Predicted to work with: Mouse, Rat, Cow, Dog, Pig
Immunogen: Synthetic peptide: ETYCATPAKSERD, corresponding to internal sequence amino acids 81-93 of Human IGF2 (NP_000603.1; NP_001121070.1).

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer: pH: 7.30, Preservative: 0.02% Sodium azide, Constituents: 99% Tris buffered saline, 0.5% BSA
Purity: Immunogen affinity purified
Purification notes: Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab123812 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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
ab123812 (5µg/ml) shows staining of IGF2 in paraffin embedded Human Cerebellum following steamed antigen retrieval with citrate buffer pH 6 and AP-staining. This shows axonal staining.

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

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