abcam

Product datasheet

Mouse IGF1 ELISA Kit ab100695

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Overview

Product name	Mouse IGF1 ELISA Kit
Detection method	Colorimetric
Sample type	Cell culture supernatant, Serum, Plasma, Tissue Lysate
Assay type	Sandwich (quantitative)
Sensitivity	< 4 pg/ml
Range	2.74 pg/ml - 2000 pg/ml
Recovery	98 %

Sample specific recovery

Sample type	Average %	Range
Cell culture supernatant	86.4	72% - 99%
Serum	101.2	85% - 117%
Plasma	106.6	85% - 114%

Assay duration	Multiple steps standard assay
Species reactivity	**Reacts with:** Mouse
Product overview	Abcam's IGF1 Mouse ELISA (Enzyme-Linked Immunosorbent Assay) kit is an *in vitro* enzyme-linked immunosorbent assay for the quantitative measurement of mouse IGF1 in serum, plasma and cell culture supernatants. This assay employs an antibody specific for mouse IGF1 coated on a 96- well plate. Standards and samples are pipetted into the wells and IGF1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-mouse IGF1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of IGF1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
Platform	Microplate

Properties

Storage instructions Store at -20°C. Please refer to protocols.

Components	1 x 96 tests
200X HRP-Streptavidin Concentrate	1 x 200µl
20X Wash Buffer	1 x 25ml
5X Assay Diluent B	1 x 15ml
Assay Diluent A	1 x 30ml
Biotinylated anti-Mouse IGF1	2 vials
IGF1 Microplate (12 x 8 wells)	1 unit
Recombinant Mouse IGF1 Standard (lyophilized)	2 vials
Stop Solution	1 x 8ml
TMB One-Step Substrate Reagent	1 x 12ml

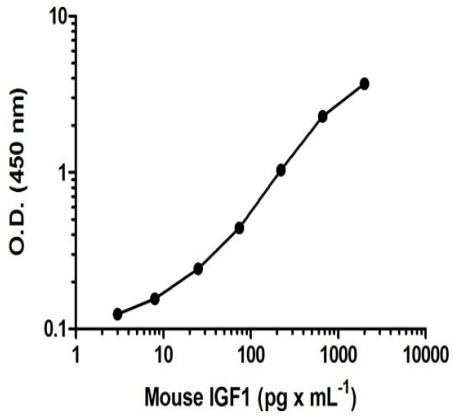
Function The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose 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.

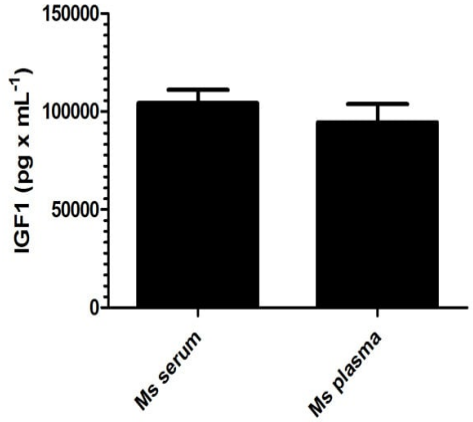
Cellular localization Secreted.

Images



Mouse IGF1 standard curve: mean of duplicates (+/- SD), performed in Diluent A

Sandwich ELISA - IGF1 Mouse ELISA Kit (ab100695)



Mouse IGF1 measured in biological fluids showing quantity (pg) per mL of tested sample. Samples diluted 500-4500 fold.

Sandwich ELISA - IGF1 Mouse ELISA Kit (ab100695)

Representative Standard Curve using ab100695

Typical Standard Curve

Typical Standard Curve

Representative Standard Curve using ab100695

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