

Rat IGF-2 ELISA Kit | IGF2 elisa kit

Rat IGF-2 PicoKine ELISA Kit

CATALOG #
AAA45282

REACTIVITY
Rat

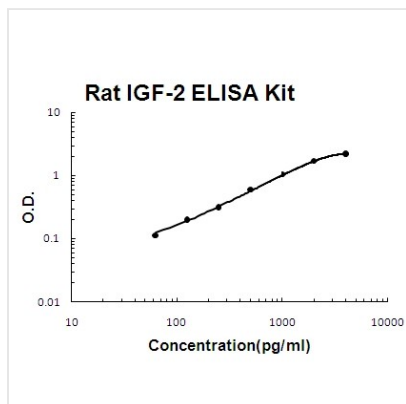
PRODUCT SYNONYMS

IGF-2; Rat IGF-2 PicoKine ELISA Kit; Insulin-like growth factor II; insulin-like growth factor 2 (somatomedin A); C11orf43; FLJ22066; FLJ44734; IGF 2; IGF II; IGF-II; IGF2; IGF2_HUMAN; IGFII; INSIGF; Insulin like Growth Factor 2; Insulin like growth factor 2 (somatomedin A); Insulin like growth factor II; Insulin like growth factor II precursor; Insulin like growth factor type 2; pp9974; Preptin; Putative insulin like growth factor II associated protein; Somatomedin A; Somatomedin-A; IGF2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat IGF-2
Sequence Length	180
Samples	Cell culture supernates, serum and plasma(heparin, EDTA)
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	<5pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat IGF-2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for IGF2 elisa kit	Principle of the Assay: The rat IGF-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IGF-2 has been precoated onto 90-well plates. Standards (Expression system for standard: E.coli, Immunogen sequence: A25-E91) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IGF-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat IGF-2 amount of sample captured in plate. Background: Insulin-like growth factor II is also known as somatomedin A. IGF-2 is a member of the insulin family of polypeptide growth factors that is involved in development and growth. 1 It is paternally expressed in the fetus and placenta. 2 IGF-II is a mitogen for many cell types and an important modulator of muscle growth and differentiation. IGF-II gene is prevalently expressed during prenatal development and its gene activity is regulated by genomic imprinting, in that the allele inherited from the father is active and the allele inherited from the mother is inactive in most normal tissues.3 IGF-II appears to be induced by placental lactogen during prenatal development.4 It is a mediator of prolactin-induced alveologenesis; prolactin, IGF-2, and cyclin D1, all of which are overexpressed in breast cancers, are components of a developmental pathway in the mammary gland.5
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NCBI AND UNIPROT INFORMATION

NCBI GI #	124258
NCBI GeneID	24483
UniProt Accession #	P01346
Molecular Weight	20,086 Da
NCBI Official Full Name	Insulin-like growth factor II
NCBI Official Synonym Full Names	insulin-like growth factor 2
NCBI Official Symbol	Igf2
NCBI Official Synonym Symbols	IGFII; RNIGF2
NCBI Protein Information	insulin-like growth factor II; MSA; IGF-II; multiplication-stimulating activity; insulin-like growth factor II (IGF-II); multiplication-stimulating polypeptide; Insulin-like growth factor II (somatomedin A); insulin-like growth factor II isoform 2 variant 4 preprotein
UniProt Protein Name	Insulin-like growth factor II
UniProt Gene Name	Igf2
UniProt Synonym Gene Names	Igf-2; IGF-II; MSA
UniProt Entry Name	IGF2_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.