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Product datasheet for PP1020B2

IGF1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**Direct ELISA:** To detect Human IGF-I by direct ELISA (using 100 µl/well antibody solution) a concentration of ~1.0 µg/ml of this antibody is required. This Biotinylated polyclonal antibody allows the detection of at least 0.2-0.4 ng/well of recombinant Human IGF-I. **Sandwich ELISA:** To detect Human IGF-I by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. Used in conjunction with Polyclonal anti-Human IGF-I (Cat.-No PP1020P1 or PP1020P2) as a Capture antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human IGF-I. **Western blot:** To detect Human IGF-I 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 Hunman IGF-I is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	*E.coli* derived recombinant Human IGF-I (Cat.-No PA071)
Specificity:	This antibody reacts with Human Insulin-like Growth Factor 1. Other species not tested.
Formulation:	PBS, pH 7.2 without preservatives. Label: Biotin State: Lyophilized (sterile filtered) purified Ig fraction. Label: conjugated
Reconstitution Method:	Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography.
Conjugation:	Biotin
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.

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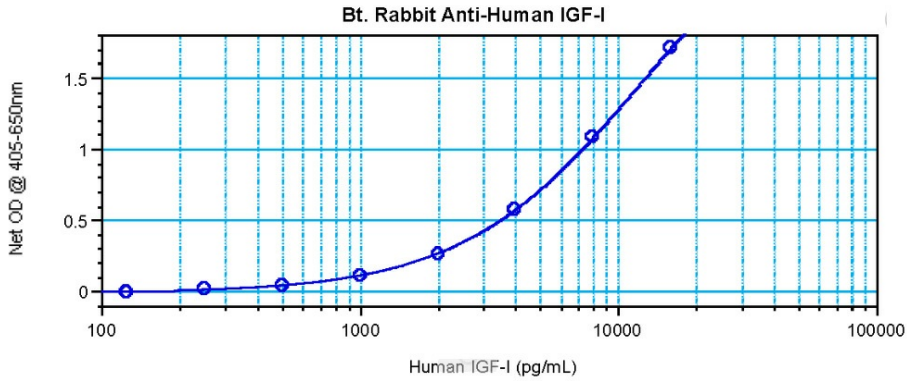
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 1
Database Link:	Entrez Gene 3479 Human P05019
Background:	Insulin is a pancreatic hormone that regulates glucose uptake and the synthesis of protein and fat. The insulin like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth promoting activity. IGF1 (Insulin Like Growth Factor I) is a polypeptide growth factor, which stimulates the proliferation of a wide range of cell types including muscle, bone, and cartilage tissue. IGF1 functions as an autocrine regulator of growth.
Synonyms:	IGF-I, Somatomedin-C, Mechano growth factor, MGF, IBP1
Note:	Centrifuge vial prior to opening!
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer

Product images:



Sandwich ELISA using Insulin-like growth factor I / IGF1 Cat.-No [PP1020B]