

Datasheet: AHP1281B

Description:	RABBIT ANTI HUMAN INSULIN-LIKE GROWTH FACTOR I:Biotin
Specificity:	IGF-I
Other names:	INSULIN-LIKE GROWTH FACTOR I
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antisera to human IGF-I were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.1mg/ml

Immunogen [Recombinant human IGF-I](#)

External Database Links

UniProt:
[P05019](#) [Related reagents](#)

Entrez Gene:
[3479](#) IGF1 [Related reagents](#)

Synonyms IBP1

Specificity **Rabbit anti Human insulin-like Growth factor I antibody** recognizes human IGF-I (Insulin-like Growth Factor I), a 70 amino acid secreted mitogenic polypeptide and member of the insulin gene family, produced primarily by the liver. IGF-I exhibits both autocrine and paracrine properties and has a widespread effect on cells including those of the bone, cartilage, muscle, nerves, skin, liver and lungs, playing a key role in cell proliferation and growth, inhibition of apoptosis and linked with tumour cell growth.

IGF-I signals through binding to the type 1 insulin-like growth factor receptor (IGF-1R) and also to the insulin receptor (IR), resulting in the activation of the AKT signalling pathway. Production of IGF-I is stimulated by growth hormone (GH) and can be hindered by GH insensitivity, deficiency in GH receptors or a malfunction in the post GH receptor signalling pathway.

ELISA This biotinylated human IGF-I antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our [purified human IGF-I antibody](#) (AHP1281) as the capture reagent and [recombinant human IGF-I](#) (PHP177) as the standard.

Further Reading 1. Singer, C.F. *et al.* (2004) Insulin-like growth factor (IGF)-I and IGF-II serum concentrations in patients with benign and malignant breast lesions: free IGF-II is correlated with breast cancer size. [Clin Cancer Res. 10 \(12 Pt 1\): 4003-9.](#)

Storage Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 3 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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