

Datasheet: AHP1281B

BATCH NUMBER 164854

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 - lyophilized
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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 0.1mg/ml
Immunogen	Recombinant human IGF-I
External Database Links	<p>UniProt: P05019 Related reagents</p> <p>Entrez Gene: 3479 IGF1 Related reagents</p>
Synonyms	IBP1
RRID	AB_2248739
Specificity	<p>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.</p> <p>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.</p>
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. <i>et al.</i> (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	<p>Prior to reconstitution store at -20°C. After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.</p>

Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP1281B 10294
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Regulatory	For research purposes only
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M402206:220718'

Printed on 18 Jan 2024

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