

## Datasheet: AHP1281B

<b>Description:</b>	RABBIT ANTI HUMAN INSULIN-LIKE GROWTH FACTOR I:Biotin
<b>Specificity:</b>	IGF-I
<b>Other names:</b>	INSULIN-LIKE GROWTH FACTOR I
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilized
<b>Reconstitution</b>	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.
<b>Antiserum Preparation</b>	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.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml
<b>Immunogen</b>	<a href="#">Recombinant human IGF-I</a>
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05019</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3479</a>    IGF1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IBP1
<b>RRID</b>	AB_2248739
<b>Specificity</b>	<p><b>Rabbit anti Human insulin-like Growth factor I antibody</b> 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>
<b>ELISA</b>	This biotinylated human IGF-I antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our <a href="#">purified human IGF-I antibody</a> (AHP1281) as the capture reagent and <a href="#">recombinant human IGF-I</a> (PHP177) as the standard.
<b>Further Reading</b>	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. <a href="#">Clin Cancer Res. 10 (12 Pt 1): 4003-9.</a>
<b>Storage</b>	<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. Should this product contain a precipitate we recommend microcentrifugation before use.</p>

**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'

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