

## Datasheet: AHP776B

<b>Description:</b>	RABBIT ANTI HUMAN INSULIN-LIKE GROWTH FACTOR II:Biotin
<b>Specificity:</b>	IGF-II
<b>Other names:</b>	INSULIN-LIKE GROWTH FACTOR II
<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 - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.5 ml 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-II were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml after reconstitution

**Immunogen** [Recombinant human IGF-II](#)

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**External Database Links**

**UniProt:**  
[P01344](#) [Related reagents](#)

**Entrez Gene:**  
[3481](#) IGF2 [Related reagents](#)

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**Specificity**

**Rabbit anti Human Insulin-Like Growth Factor II antibody** recognizes human IGF-II (Insulin-like Growth Factor II), a 67 amino acid mitogenic polypeptide and member of the Insulin gene family, synthesized by various foetal tissues during prenatal development, under the influence of placental lactogen.

IGF-II is a growth factor which exhibits both paracrine and autocrine properties and signals by binding to the type 1 and type 2 insulin-like growth factor receptors (type 1 IGFR and type 2 IGFR), and also to the insulin receptor (IR). The availability of IGF-II is dependent upon its attachment to, and release from, various IGF binding proteins (IGFBPs), a relationship which has been investigated in breast cancer research ([Singer \*et al.\* 2004](#)).

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**ELISA**

This biotinylated human IGF-II antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our [purified human IGF-II antibody](#) (AHP776) as the capture reagent and [recombinant human IGF-II](#) (PHP034A) as the standard.

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**Western Blotting**

This antibody may be used in Western Blotting under either reducing or non-reducing conditions with [recombinant human IGF-II](#) (PHP034A) as the positive control.

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**References**

1. Terasawa, H. *et al.* (1994) Solution structure of human insulin-like growth factor II; recognition sites for receptors and binding proteins. [EMBO J. 13 \(23\): 5590-7.](#)
  2. 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.](#)
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**Storage**

Prior to reconstitution store at +4°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.

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**Shelf Life**

12 months from date of reconstitution.

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN INSULIN-LIKE GROWTH FACTOR II \(AHP776\)](#)

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