

Datasheet: AHP776B

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

Immunogen [Recombinant human IGF-II](#)

External Database Links

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

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

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](#)).

ELISA

This biotinylated human IGF-II antibody may be used in a direct ELISA with [recombinant human IGF-II](#) (PHP034A) as the standard.

Western Blotting

This antibody may be used in Western Blotting under either reducing or non-reducing conditions.

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.

Shelf Life

12 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

Related Products

Recommended Useful Reagents

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

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Printed on 02 Jul 2018

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