

Datasheet: AHP767B

Description:	RABBIT ANTI HUMAN EGF:Biotin
Specificity:	EGF
Other names:	EPIDERMAL GROWTH FACTOR
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 EGF 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 0.1mg/ml after reconstitution.

Immunogen Recombinant human EGF ([PHP030A](#)).

External Database Links

UniProt:
[P01133](#) [Related reagents](#)

Entrez Gene:
[1950](#) EGF [Related reagents](#)

Specificity **Rabbit anti human EGF** recognizes human Epidermal Growth Factor, a potent stimulator and regulator of the proliferation of epidermal and epithelial cells, expressed by a variety of cells.

The effects of EGF are initiated through tyrosine kinase activity, following the binding of EGF to the extracellular domain of the ~170 kDa EGF receptor (EGFR), which also binds other EGF-like ligands with high affinity, including TGF- α (transforming growth factor alpha), VGF (vaccinia virus growth factor) and Betacellulin, expressed in the pancreas, small intestine and by certain tumour cells ([Seno *et al.* 1996](#)). Receptor activation through EGF binding triggers several signal transduction pathways, including the JAK/STAT and P13K/AKT pathways.

ELISA This biotinylated human EGF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with a [purified human EGF antibody](#) (AHP767) as the capture reagent and [recombinant human EGF](#) (PHP030A) as the standard.

Western Blotting Rabbit anti human EGF may be used as in Western Blotting applications under either reducing or non-reducing conditions with [recombinant human EGF](#) (PHP030A) as the positive control.

Further Reading 1. Carpenter, G. & Cohen, S. (1990) Epidermal growth factor. [J Biol Chem. 265 \(14\): 7709-12.](#)

Storage Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
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.

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>

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