

Datasheet: AHP767

BATCH NUMBER 140415

Description:	RABBIT ANTI HUMAN EGF
Specificity:	EGF
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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 (1)	▪			5.0ug/ml
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			<0.1ug/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.

(1) This product requires heat-mediated pre-treatment of paraffin sections prior to staining. Citrate buffer pH 6.0 is recommended for this purpose

Target Species	Human
Product Form	Purified IgG - lyophilised
Reconstitution	<p>Reconstitute with 0.1ml distilled water.</p> <p>For long term storage the addition of 0.09% sodium azide is recommended.</p> <p>N.B. For functional studies do not add azide.</p> <p>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.</p>

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
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Preservative Stabilisers	None present.
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Carrier Free	Yes
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Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution
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Immunogen	Recombinant human EGF (PHP030A).
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External Database Links	UniProt: P01133 Related reagents Entrez Gene: 1950 EGF Related reagents
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RRID	AB_2095966
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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.
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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 purified human EGF antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with a biotinylated human EGF antibody (AHP767B) as the detection reagent and recombinant human EGF (PHP030A) as the standard.
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Histology Positive Control Tissue	Human kidney
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Western Blotting	Rabbit anti human EGF may be used in Western Blotting applications under either reducing or non-reducing conditions with recombinant human EGF (PHP030A) as the positive control.
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Further Reading	1. Carpenter, G. & Cohen, S. (1990) Epidermal growth factor. J Biol Chem. 265 (14):
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[7709-12.](#)

Storage

Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.

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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP767>
10162

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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)
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