

Datasheet: AHP767

**BATCH NUMBER 151215**

<b>Description:</b>	RABBIT ANTI HUMAN EGF
<b>Specificity:</b>	EGF
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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

Reconstitute with 0.1ml distilled water.

For long term storage the addition of 0.09% sodium azide is recommended.

N.B. For functional studies do not add azide.

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.

**Antiserum Preparation** Antisera to human EGF were raised by repeated immunisations of rabbits with highly purified antigen.  
Purified IgG prepared by affinity chromatography.

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**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.

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- $\alpha$  (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.

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**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 \(14\)](#);

[7709-12.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [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://bio-rad-antibodies.com/datasheets)  
'M372537:200706'

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