

## Datasheet: AHP2586

<b>Description:</b>	RABBIT ANTI EGF R (pSer1046)
<b>Specificity:</b>	EGF R (pSer1046)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

## 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
Western Blotting	▪			1/500 - 1/1000

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 - liquid
---------------------	-----------------------

**Antiserum Preparation** Antiserum to EGF R (pSer1046) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
------------------------	---------------------------

<b>Preservative</b>	0.05% Proclin™300
<b>Stabilisers</b>	50% Glycerol

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding serine1046 of human EGF R
------------------	--

### External Database Links

**UniProt:**  
[P00533](https://www.uniprot.org/uniprot/P00533)    [Related reagents](#)

**Entrez Gene:**

[1956](#) EGFR [Related reagents](#)

**Synonyms**

ERBB1

**Specificity**

**Rabbit anti EGF R (pSer1046) antibody** recognizes the epidermal growth factor receptor (EGF R), also known as proto-oncogene c-ErbB-1 or receptor tyrosine-protein kinase erbB-1, when phosphorylated at serine 1046. EGF R is a transmembrane glycoprotein and a member of the ErbB receptor tyrosine kinase family. EGFR is a cell surface receptor for members of the epidermal growth factor family.

EGF R plays a role in numerous cellular processes such as cell proliferation and apoptosis through the activation of downstream signaling pathways ([Scaltriti and Baselga 2006](#)).

EGF R is autophosphorylated at serine 1046 and serine 1047 upon ligand binding and receptor dimerization. Phosphorylation of serine 1046 and serine 1047 plays an important role in EGF R desensitization ([Sun et al. 2010](#)).

**Further Reading**

1. Scaltriti, M. & Baselga, J. (2006) The epidermal growth factor receptor pathway: a model for targeted therapy. [Clin Cancer Res. 12 \(18\): 5268-72.](#)
2. Sun, Q. et al. (2010) Additional serine/threonine phosphorylation reduces binding affinity but preserves interface topography of substrate proteins to the c-Cbl TKB domain. [PLoS One. 5 \(9\): e12819.](#)

**Storage**

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.

**Guarantee**

12 months from date of despatch

**Acknowledgements**

ProClin™ is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.

**Health And Safety Information**

Material Safety Datasheet documentation #20376 available at: <https://www.bio-rad-antibodies.com/SDS/AHP2586>  
20376

**Regulatory**

For research purposes only

## 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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M417871:230418'

Printed on 12 Aug 2023

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)