

Datasheet: AHP2586

Description:	RABBIT ANTI EGF R (pSer1046)
Specificity:	EGF R (pSer1046)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species Human

Product Form 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.

Buffer Solution Phosphate buffered saline

Preservative 0.02% Sodium Azide
Stabilisers 50% Glycerol

Immunogen Phospho specific-peptide corresponding to residues surrounding serine1046 of human EGF R

External Database Links

UniProt:
[P00533](https://www.uniprot.org/entry/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

Health And Safety Information

Material Safety Datasheet documentation #10049 available at: 10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

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

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

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

Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

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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

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