

Datasheet: VMA00515

Description:	HUMAN ANTI EGF R (pTyr1045)
Specificity:	EGF R (pTyr1045)
Other names:	ERBB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AbD30783
Isotype:	HuCAL Fab bivalent
Quantity:	100 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	▪			1/200 - 1/2000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Product Form

A bivalent human recombinant Fab selected from the HuCAL® phage display library, expressed in E. coli. This Fab fragment is dimerized via an inactive variant of the bacterial alkaline phosphatase (BAP) fusion protein. The antibody is tagged with DYKDDDDK and His (HHHHHH) tags.

Preparation

Prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.01% Thiomersal

Approx. Protein

Antibody concentration 0.5 mg/ml

Concentrations

Immunogen Phosphorylated EGF R peptide conjugated to BSA and human transferrin

External Database Links

UniProt:

[P00533](#) [Related reagents](#)

Entrez Gene:

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

Synonyms ERBB1

Specificity **Human anti EGF R (pTyr1045) 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 tyrosine 1045. EGF R is a transmembrane glycoprotein and a member of the ErbB receptor tyrosine kinase family. EGF R plays a role in numerous cellular processes such as cell proliferation and apoptosis through the activation of downstream signaling pathways ([Scaltriti, M. & Baselga, J. 2006](#)). The E3 ubiquitin ligase, Cbl, binds to tyrosine 1045 upon its phosphorylation ([Levkowitz, G. et al. 1999](#)) and mediates its monoubiquitination, which results in receptor endocytosis followed by endosomal/lysosomal sorting ([Grøvdal, L.M. et al. 2004](#) and [Haglund, K. & Dikic, I. 2012](#)).

Western Blotting Human anti EGF R (pTyr1045) detects a band of approximately 179 kDa in MDA-MB-468 + EGF (treated lysate) cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.
Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents.
This antibody was developed by Bio-Rad.
His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory For research purposes only

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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)

'M386883:210528'

Printed on 29 Aug 2021

