

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.
Source	E.coli
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.01% Thiomersal.

Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml.
Immunogen	Phosphorylated EGF R peptide conjugated to BSA and human transferrin
External Database Links	<p>UniProt: P00533 Related reagents</p> <p>Entrez Gene: 1956 EGFR Related reagents</p>
Synonyms	ERBB1
Specificity	<p>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).</p>
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	<p>PrecisionAb is a trademark of Bio-Rad Laboratories.</p> <p>This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/VMA00515 10162</p>
Regulatory	For research purposes only.

North & South America	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: 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

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