

Datasheet: VMA00515

BATCH NUMBER 151626

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant 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 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
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
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. Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany. His-tag is a registered trademark of EMD Biosciences.</p>
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/VMA00515 10162
Regulatory	For research purposes only

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)

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