

Datasheet: VMA00474

BATCH NUMBER 151627

Description:	HUMAN ANTI EGF R
Specificity:	EGF R
Other names:	ERBB1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	AbD30787
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	IgG concentration 0.5 mg/ml
Immunogen	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 Human EGF R antibody recognizes the epidermal growth factor (EGF) receptor, a 150 kDa transmembrane receptor also known as ERBB1. The EGF receptor is a member of the ERBB family of four structurally related receptor tyrosine kinases. Binding of one of the many EGF receptor ligands (EGF, amphiregulin, TGFα, epiregulin) causes homodimerization of the receptor. This leads to downstream activation of several signalling pathways including MAPK/ERK, PI3K/Akt and PLCγ/PKC (Prenzel et al. 2001).</p> <p>Overexpression of the EGF receptor promotes gene amplification and mutation consequence in cell proliferation, survival, invasion, metastasis, and tumor induced neoangiogenesis (Ciardiello & Tortora, 2008).</p>
Western Blotting	Human anti EGF R antibody detects a band of approximately 170 kDa in A431 cell lysate
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: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Email: 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

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

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
'M371800:200612'

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