

Datasheet: VMA00474

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

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	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.
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/VMA00474 10162</p>
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

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