

## Datasheet: VMA00474

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | HUMAN ANTI EGF R       |
| <b>Specificity:</b>  | EGF R                  |
| <b>Other names:</b>  | ERBB1                  |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | AbD30787               |
| <b>Isotype:</b>      | HuCAL Fab bivalent     |
| <b>Quantity:</b>     | 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](http://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

IgG concentration 0.5 mg/ml

## Concentrations

**Immunogen** 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 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, TGF $\alpha$ , epiregulin) causes homodimerization of the receptor. This leads to downstream activation of several signalling pathways including MAPK/ERK, PI3K/Akt and PLC $\gamma$ /PKC ([Prenzel et al. 2001](#)).

Overexpression of the EGF receptor promotes gene amplification and mutation consequence in cell proliferation, survival, invasion, metastasis, and tumor induced neoangiogenesis ([Ciardiello & Tortora, 2008](#)).

**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** 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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