

Datasheet: VMA00147

**BATCH NUMBER 165269**

<b>Description:</b>	MOUSE ANTI ErbB2
<b>Specificity:</b>	ErbB2
<b>Other names:</b>	HER2, MLN19, NEU, NGL
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	OTI4F10
<b>Isotype:</b>	IgG2a
<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	■			1/1000

**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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline.

<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml.
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 676-1255 of human ErbB2 (NP_004439) produced in HEK293T cells
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04626</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2064</a>    ERBB2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HER2, MLN19, NEU, NGL
<b>Specificity</b>	<p><b>Mouse anti Human ErbB2 antibody</b> recognizes ErbB2, also known as c-erb B2/neu protein, herstatin, metastatic lymph node gene 19 protein, neuro/glioblastoma derived oncogene homolog, neuroblastoma/glioblastoma derived oncogene homolog, p185erbB2, proto-oncogene Neu, proto-oncogene c-ErbB-2, receptor tyrosine-protein kinase erbB-2, tyrosine kinase-type cell surface receptor HER2, v-erb-b2 avian erythroblastic leukemia viral oncoprotein 2, v-erb-b2 erythroblastic leukemia viral oncogene homolog 2 and neuro/glioblastoma derived oncogene homolog.</p> <p>Encoded by the ERBB2 gene, ErbB2 is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of ERBB2 has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized (provided by RefSeq, Jul 2008).</p> <p>Mouse anti Human ErbB2 antibody detects a band of 185 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti ErbB2 detects a band of approximately 185 kDa in HepG2 cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch.

**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety Information** Material Safety Datasheet documentation #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00147>  
Antibody (10048)

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**Regulatory** For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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