

Datasheet: VPA00003

**BATCH NUMBER 160914**

<b>Description:</b>	GOAT ANTI ErbB3
<b>Specificity:</b>	ErbB3
<b>Other names:</b>	HER3
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Polyclonal
<b>Isotype:</b>	Polyclonal IgG
<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>	Reacts with: Mouse, Rat <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.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Goat polyclonal antibody purified by ammonium sulfate precipitation followed by antigen affinity chromatography
<b>Buffer Solution</b>	TRIS buffered saline

<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Peptide sequence C-HSRLFPKANAQRT from the C-terminal region ErbB3 isoform 1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P21860</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2065</a>    ERBB3    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HER3
<b>Specificity</b>	<p><b>Goat anti Human ErbB3 antibody</b> recognizes the human receptor tyrosine-protein kinase ErbB-3, also known as proto-oncogene-like protein c-ErbB-3 or tyrosine kinase-type cell surface receptor HER3. ErbB3 is a 1342 amino acid single pass type 1 membrane glycoprotein, a tyrosine protein kinase containing a single protein kinase domain, originally considered inactive (<a href="#">Citri et al. 2003</a>). However, subsequent studies have demonstrated that the kinase domain is competent to bind ATP and retains sufficient activity for the catalysis of autophosphorylation (<a href="#">Shi et al. 2010</a>). Multiple isoforms of ErbB3, generated by alternative splicing have been described (<a href="#">Katoh et al. 1993</a>).</p> <p>Goat anti Human Erb3 antibody is generated against a peptide located within the C-terminal region and is expected to recognize membrane bound isoforms <a href="#">1,4 and 5</a> but not the short isoforms 2 and 3. ErbB3 is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases and has neuregulin binding activity (<a href="#">Carraway et al. 1994</a>). Heterodimerization of ErbB3 with other EGFR family members leads to cell proliferation and/or differentiation (<a href="#">Carraway and Cantley 1994</a>).</p> <p>Amplification of this gene and/or over expression of its protein has been reported in numerous cancers, including prostate, bladder, and breast tumors. In breast cancer it has been shown to dimerize with ErbB2 to drive tumour cell proliferation (<a href="#">Alimandi et al. 1995</a>).</p> <p>Goat anti Human ErbB3 antibody recognizes human ErbB3 as a 185 kDa band in a number of human cell line lysates tested. It also demonstrates cross reacts with rodent cell lines.</p>
<b>Western Blotting</b>	Anti ErbB3 antibody detects a band of approximately 185 kDa in MCF7 cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety Information**      Material Safety Datasheet documentation #10058 available at:  
<https://www.bio-rad-antibodies.com/SDS/VPA00003>  
Antibody (10058)

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (H/L) (5160-2104...) [HRP](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M374052:201017'

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