

## Datasheet: VPA00003KT

<b>Description:</b>	ErbB3 ANTIBODY WITH CONTROL LYSATE
<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>	2 Westerns

## 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

**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.

<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.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	20µl Goat polyclonal antibody by purified ammonium sulfate precipitation followed by antigen affinity chromatography
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 0.5% Bovine Serum Albumin
<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>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
<b>Lysate Composition</b>	400µg MCF7 lysate lyophilized in RIPA buffer.
<b>Lysate Reconstitution</b>	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
<b>Storage</b>	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
<b>Guarantee</b>	As supplied, 12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10058 #10561 available at:</p> <p>Antibody (10058): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf</a></p> <p>Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

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