

Datasheet: VPA00003

Description:	GOAT ANTI ErbB3
Specificity:	ErbB3
Other names:	HER3
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
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.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Mouse, Rat</p> <p>N.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>
Product Form	Purified IgG - liquid
Preparation	Goat polyclonal antibody purified by ammonium sulfate precipitation followed by antigen affinity chromatography.

Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml.
Immunogen	Peptide sequence C-HSRLFPKANAQRT from the C-terminal region ErbB3 isoform 1
External Database Links	<p>UniProt: P21860 Related reagents</p> <p>Entrez Gene: 2065 ERBB3 Related reagents</p>
Synonyms	HER3
Specificity	<p>Goat anti Human ErbB3 antibody 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 (Citri et al. 2003), the kinase domain is competent to bind ATP and retains sufficient activity for the catalysis of autophosphorylation (Shi et al. 2010). Multiple isoforms of ErbB3 are generated by alternative splicing (Kato et al. 1993).</p> <p>Goat anti Human Erb3 antibody was generated against a peptide corresponding to the C-terminal region of ErbB3 and is expected to recognize membrane bound isoforms 1,4 and 5 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 (Carraway et al. 1994). Heterodimerization of ErbB3 with other EGFR family members leads to cell proliferation and/or differentiation (Carraway and Cantley 1994).</p> <p>Amplification of this gene and/or over expression the protein occurs in numerous cancers, including prostate, bladder, and breast tumors. In breast cancer it has been shown to dimerize with ErbB2 to drive tumor cell proliferation (Alimandi et al. 1995).</p> <p>Goat anti Human ErbB3 antibody recognizes human ErbB3 as a 185 kDa band in a number of human cell line lysates tested and cross reacts with rodent cell lines.</p>
Western Blotting	Anti ErbB3 antibody detects a band of approximately 185 kDa in MCF7 cell lysates.
References	1. Holbro, T. <i>et al.</i> (2003) The ErbB2/ErbB3 heterodimer functions as an oncogenic unit: ErbB2 requires ErbB3 to drive breast tumor cell proliferation. Proc Natl Acad Sci U S A. 100 (15): 8933-8.
Further Reading	1. Plowman, G.D. <i>et al.</i> (1990) Molecular cloning and expression of an additional epidermal growth factor receptor-related gene. Proc Natl Acad Sci U S A. 87 (13): 4905-9.

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.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: https://www.bio-rad-antibodies.com/SDS/VPA00003 Antibody (10058)
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

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

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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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