

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
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.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
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 Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Immunogen	Peptide sequence C-HSRLFPKANAQRT from the C-terminal region ErbB3 isoform 1
External Database Links	UniProt: P21860 Related reagents Entrez Gene: 2065 ERBB3 Related reagents

Synonyms

HER3

Specificity

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, originally considered inactive ([Citri et al. 2003](#)). However, subsequent studies have demonstrated that 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, generated by alternative splicing have been described ([Katoh et al. 1993](#)).

Goat anti Human Erb3 antibody is generated against a peptide located within the C-terminal region 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](#)).

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 ([Alimandi et al. 1995](#)).

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.

Western Blotting

Anti ErbB3 antibody detects a band of approximately 185 kDa in MCF7 cell lysates.

Instructions For Use

Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Shelf Life

As supplied, 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:
Antibody (10058): <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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