

Datasheet: AHP1088

Description:	GOAT ANTI ErbB3 (C-TERMINAL)
Specificity:	ErbB3 (C-TERMINAL)
Other names:	HER3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

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	■			1/32000
Immunoprecipitation			■	
Western Blotting	■			0.1 - 0.3ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Rat, Mouse, Dog N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid

Antiserum Preparation Antisera to human ErbB3 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Peptide sequence C-HSRLFPKANAQRT corresponding to the C-terminal of ErbB3 isoform 1(NP_001973.2).

**External Database
Links**

UniProt:

[P21860](#)

[Related reagents](#)

Entrez Gene:

[2065](#)

ERBB3

[Related reagents](#)

Synonyms

HER3

Specificity

Goat anti Human Erb3 antibody recognizes the human Receptor tyrosine-protein kinase erbB-3, also known as ErbB3, 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, although this domain has been considered inactive ([Citri *et al.* 2003](#)) however, the kinase domain is competent to bind ATP for 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 a molecular mass of ~150 kDa. ErbB3 acts as a receptor for neuregulin ([Zhu *et al.* 1995](#)). Heterodimerization of ErbB3 with other EGFR family members leads to cell proliferation and 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](#)).

Western Blotting

AHP1088 detects a band of approximately 150kDa in Jurkat cell lysates. A minimum incubation time of 1 hour is recommended with this antibody.

References

1. Holbro, T. *et al.* (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. Jul 2003; 100: 8933.](#)

Further Reading

1. Plowman, G.D. *et al.* (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 at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10058 available at:
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 (Fc) (STAR122...) [FITC](#), [HRP](#)

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