

## Datasheet: AHP1131

<b>Description:</b>	RABBIT ANTI HUMAN ErbB4
<b>Specificity:</b>	ErbB4
<b>Other names:</b>	HER4
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			25 - 35ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to ErbB4 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.1% Sodium Azide (NaN <sub>3</sub> )

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**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Synthetic peptide corresponding to an Internal domain of human ErbB4.

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**External Database Links**

**UniProt:**

[Q15303](#)    [Related reagents](#)

**Entrez Gene:**

[2066](#) ERBB4    [Related reagents](#)

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**Synonyms** HER4

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**RRID** AB\_2277998

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**Specificity** **Rabbit anti Human ErbB4 antibody** detects an epitope within the internal region of human ErbB4, a transmembrane protein and member of the epidermal growth factor receptor subfamily. ErbB4 is activated by a number of factors including neuregulins and betacellulin, which leads to the cleavage of a 120 kDa ectodomain fragment by TACE. In the cell, the remaining 80 kDa fragment of ErbB4 is internalised and cleaved by gamma-secretase. This fragment translocates to the nucleus and induces cell proliferation and differentiation.

ErbB4 is important in embryonic development, and mutations to its gene have been associated with cancer.

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**Histology Positive Control Tissue** Glomerulus

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**References**

1. Carpenter, G. (2003) ErbB-4: mechanism of action and biology. [Exp Cell Res. 284:66-77.](#)
2. Zhou, W. and Carpenter, G. (2002) ErbB-4: a receptor tyrosine kinase. [Inflamm Res. 51:91-101.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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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://bio-rad-antibodies.com/datasheets)

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