

Datasheet: AHP1486

**BATCH NUMBER 145511**

<b>Description:</b>	RABBIT ANTI CARABIN (N-TERMINAL)
<b>Specificity:</b>	CARABIN (N-TERMINAL)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1 - 2ug/ml
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.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse

**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.

### Product Form

Purified IgG - liquid

**Antiserum Preparation** Antiserum to human Carabin was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.02% Sodium Azide (NaN<sub>3</sub>)

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

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**Immunogen** A 17 amino acid peptide from near the amino terminus of human Carabin.

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**External Database Links**

**UniProt:**

[Q8IV04](#) [Related reagents](#)

**Entrez Gene:**

[374403](#) TBC1D10C [Related reagents](#)

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**RRID** AB\_2199227

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**Specificity** **Rabbit anti Human Carabin antibody** recognizes the N-terminal region of human Carabin, also known as TBC1 domain family member 10C (TBC1D10C), a 50 kDa protein belonging to the TBC1 domain family of proteins.

Carabin differs from other members of the TBC1 domain protein family, which appear to play a role in the regulation of cell growth and differentiation. Studies demonstrate that Carabin is part of a negative regulatory loop for the intracellular TCR signaling pathway and acts as an inhibitor of the Ras signaling pathway. Carabin is also believed to mediate crosstalk between calcineurin and Ras.

Carabin is most abundantly expressed in spleen and peripheral blood leucocytes. Rabbit anti Human Carabin antibody (**AHP1486**) does not cross react with either TBC1D10A or TBC1D10B.

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**Western Blotting** AHP1486 detects a band of approximately 55kDa in human spleen tissue cell lysates.

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**Further Reading**

1. Pan, F. *et al.* (2007) Feedback inhibition of calcineurin and Ras by a dual inhibitory protein Carabin. [Nature. 445 \(7126\): 433-6.](#)
2. Weil, R. & Israël, A. (2006) Deciphering the pathway from the TCR to NF-kappaB. [Cell Death Differ. 13 \(5\): 826-33.](#)
3. Im, S.H. & Rao, A. (2004) Activation and deactivation of gene expression by Ca<sup>2+</sup>/calcineurin-NFAT-mediated signaling. [Mol Cells. 18 \(1\): 1-9.](#)
4. White, R.A. *et al.* (2000) The gene encoding TBC1D1 with homology to the tre-2/USP6 oncogene, BUB2, and cdc16 maps to mouse chromosome 5 and human chromosome 4. [Cytogenet Cell Genet. 89 \(3-4\): 272-5.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1486">https://www.bio-rad-antibodies.com/SDS/AHP1486</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
- [TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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)  
'M363942:200529'

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