

Datasheet: AHP1110

Description:	RABBIT ANTI HUMAN PACE4
Specificity:	PACE4
Other names:	PAIRED BASIC AMINO ACID CLEAVING SYSTEM 4
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			15 - 25ug/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.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to PACE4 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen Synthetic peptide corresponding to an internal domain of human PACE4.

External Database Links

UniProt:

[P29122](#) [Related reagents](#)

Entrez Gene:

[5046](#) PCSK6 [Related reagents](#)

Synonyms PACE4

RRID AB_2158751

Specificity

Rabbit anti Human PACE4 antibody detects an epitope within the internal region of human Paired basic amino acid cleaving system 4 (PACE4). PACE4 belongs to the subtilisin-like proprotein convertase family, and is a ~100 kDa calcium dependent serine endoprotease located in the endoplasmic reticulum. It cleaves its substrates at their paired basic amino acid processing sites, converting them into their biologically active products. Several PACE4 substrates have been identified, including transforming growth factor beta-related proteins, proalbumin and von Willebrand factor.

In mouse, PACE4 has been shown to increase tumor cell invasiveness, and thus enhance tumor progression. It is thought to have a similar role in humans ([Mahloogi et al. 2002](#)).

Histology Positive Control Tissue

Brain, cortex.

Further Reading

1. Gensberg, K. *et al.* (1998) Subtilisin-related serine proteases in the mammalian constitutive secretory pathway. [Semin Cell Dev Biol. 9 \(1\): 11-7.](#)
 2. Khatib, A.M. *et al.* (2002) Proprotein convertases in tumor progression and malignancy: novel targets in cancer therapy. [Am J Pathol. 160 \(6\): 1921-35.](#)
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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.

Guarantee 12 months from date of despatch

Health And Safety Information

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

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

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

Recommended Useful Reagents

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

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

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