

## Datasheet: AHP2262

<b>Description:</b>	GOAT ANTI HUMAN FURIN (C-TERMINAL)
<b>Specificity:</b>	FURIN (C-TERMINAL)
<b>Other names:</b>	PACE
<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			▪	
ELISA	▪			1/128000
Immunoprecipitation			▪	
Western Blotting	▪			0.01 - 0.03ug/ml

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

### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Rat, Dog, Pig, Bovine  
**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 Furin (CT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

### Buffer Solution

TRIS buffered saline

<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Synthetic peptide sequence C-EDEGRGERTAFIKDQ, from within the C-Terminal region of Furin (NP_002560.1).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09958</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5045</a>    FURIN    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FUR, PACE, PCSK3
<b>Specificity</b>	<p><b>Goat anti Human furin antibody</b> recognizes an epitope within the C-Terminal (CT) region of furin, otherwise known as PACE (Paired basic Amino acid Cleaving Enzyme). Furin is a calcium-dependent serine endoprotease and proprotein convertase, which plays a crucial role in the processing of latent precursor proteins into their biologically active forms, such as during the Notch signaling pathway.</p> <p>The Notch signaling pathway is an evolutionarily conserved pathway in multicellular organisms, vital for cell-cell communication, important during fundamental developmental and physiological processes, including regulation of cell fate decisions during neuronal, cardiac and endocrine development, stem cell hematopoiesis, thymic T cell development, and both tumor progression and suppression.</p> <p>Furin is a critical enzyme during the S1 cleavage of pre-Notch proteins within the golgi apparatus, to convert the nascent form into the mature heterodimeric Notch receptor and the non-covalently associated intracellular domain. These are then transported to the cell surface, in preparation for ligand-receptor binding and further S2 and S3 cleavage, resulting in the release and translocation of the intracellular domain to the nucleus.</p>
<b>Western Blotting</b>	AHP2262 detects a band of approximately 110kDa in HEK293 lysate transiently expressing Human Furin tagged with myc and DYKDDDDK.
<b>Further Reading</b>	1. Bray, S.J. (2006) Notch signalling: a simple pathway becomes complex. <a href="#">Nat Rev Mol Cell Biol. 7 (9): 678-89.</a>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

**Guarantee** 12 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](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M389196:210806'

**Printed on 29 Aug 2021**

---

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)