Datasheet: AHP2265

Description:	GOAT ANTI HUMAN FURIN (aa553-565)
Specificity:	FURIN (aa553-565)
Other names:	PACE
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 (1)	▪			2.0 - 4.0ug/ml
ELISA	▪			1/8000
Immunoprecipitation			▪	
Western Blotting		▪		

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

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.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to human Furin was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography using the immunizing peptide

Buffer Solution

TRIS buffered saline

Preservative Stabilisers

0.02% Sodium Azide (NaN_3)
0.5% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

Immunogen	Synthetic peptide sequence C-NTSEANNYGTLTK from the internal region of Furin (NP_002560.1).
External Database Links	**UniProt:** P09958 Related reagents **Entrez Gene:** 5045 FURIN Related reagents
Synonyms	FUR, PACE, PCSK3
Specificity	**Goat anti Human furin antibody** recognizes an epitope corresponding to aa553-565 of human 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. The Notch signaling pathway is an evolutionarily conserved pathway in multicellular organisms, which is 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. 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.
Histology Positive Control Tissue	Human liver
Further Reading	1. Bray, S.J. (2006) Notch signalling: a simple pathway becomes complex. Nat Rev Mol Cell Biol. 7 (9): 678-89.
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 #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

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)
ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)

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'M364167:200529'

Printed on 11 Aug 2020