For Research Use Only

FURIN Polyclonal antibody

Catalog Number:18413-1-AP Featured Product 33 Publications

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Basic Information

Catalog Number:
18413-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13261

GenBank Accession Number:
BC012181

GeneID (NCBI):
5045

UNIPROT ID:
P09958

Full Name:
furin (paired basic amino acid cleaving enzyme)

Calculated MW:
87 kDa

Observed MW:
90-110 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:20-1:200
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, Cell treatment

Species Specificity:
human

Cited Species:
human, mouse, rat, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HepG2 cells, COLO 320 cells, HeLa cells

IP : HeLa cells,

IHC : human placenta tissue,

IF/ICC : HeLa cells,

Background Information

FURIN, also named FUR, PACE, PCSK3, SPC1, and Kex2p, is likely to represent the ubiquitous endoprotease activity within constitutive secretory pathways and is capable of cleavage at the RX(K/R)R consensus motif. Furin is synthesized as an inactive zymogen that may minimize the occurrence of premature enzymatic activity that would lead to alternative protein activation or degradation. The molecular weight of mature furin is 75-90 kDa and that of pre-pro furin is 95 kDa. With glycosylation and other post-translational modifications, the molecular weight of pre-pro furin will be migrated to 100-110 kDa. (PMID: 1644796, 1885622, 31336100, 35322530).

Notable Publications

Author	Pubmed ID	Journal	Application
Carme Arnan	35619054	BMC Genomics	WB
Charles N S Allen	35418836	Front Cell Neurosci	WB
Youli Zhang	28259973	Int J Oncol	WB

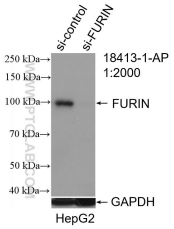
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

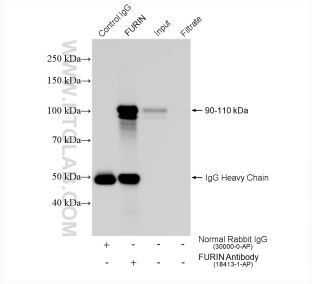
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

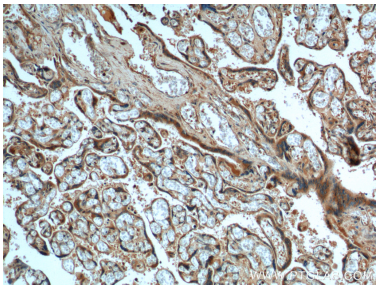
Selected Validation Data



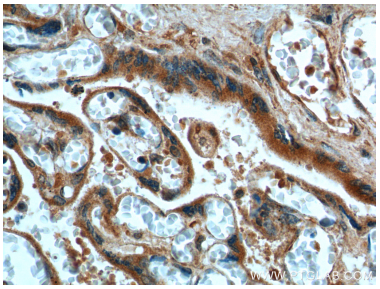
WB result of FURIN antibody (18413-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FURIN transfected HepG2 cells.



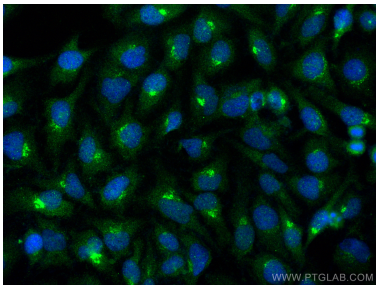
IP result of anti-FURIN (IP:18413-1-AP, 4ug; Detection:18413-1-AP 1:4000) with HeLa cells lysate 2000 ug.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18413-1-AP (FURIN Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 18413-1-AP (FURIN Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using FURIN antibody (18413-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).