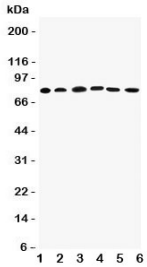
Proprotein Convertase 1/3 Antibody (R31196)

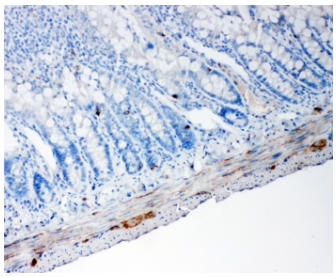
Catalog No.	Formulation	Size
R31196	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

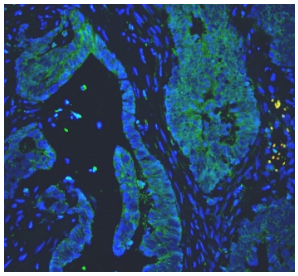
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P29120
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunofluorescence (FFPE): 1-2ug/ml
Limitations	This Proprotein Convertase 1/3 antibody is available for research use only.



Western blot testing of Proprotein Convertase 1/3 antibody; Lane 1: rat liver; 2: (r) thymus; and human samples 3: A549; 4: HeLa; 5: COLO320; 6: PANC cell lysate



IHC staining of FFPE rat intestine tissue with Proprotein Convertase 1/3 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human colon cancer with Proprotein Convertase 1/3 antibody (green) and DAPI nuclear counterstain (blue). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

Description

Proprotein Convertase, Subtilisin/Kexin-Type, 1, also known as PC1 or NEC1, is an enzyme that in humans is encoded by the PCSK1 gene. It is a neuroendocrine convertase that belongs to a family of subtilisin-like serine endoproteases that process large precursor proteins into mature bioactive products. By in situ hybridization, Seidah et al.(1991) mapped the gene to human chromosome 5q15-q21 and mouse chromosome 13. Ohagi et al.(1996) noted that PCSK1 initiates the sequential processing of proinsulin to insulin by cleaving the proinsulin molecule on the C-terminal side of the dibasic peptide, arg31-arg32, joining the B-chain and C-peptide. By observing the phenotypic features in patients with PCSK1 mutations, Jackson et al.(2003) concluded that human intestinal absorptive function is dependent on the enzymes activity.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Proprotein Convertase 1/3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Proprotein Convertase 1/3 (DVFYNTKPYKHRDDR) was used as the immunogen for this Proprotein Convertase 1/3 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the Proprotein Convertase 1/3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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