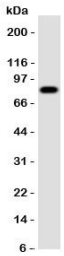
Proprotein Convertase 4 Antibody (R31198)

Catalog No.	Formulation	Size
R31198	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	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	P29121
Applications	Western blot: 0.5-1ug/ml
Limitations	This Proprotein Convertase 4 antibody is available for research use only.



Western blot testing of Proprotein Convertase 4 antibody and rat brain tissue. Observed size 54~84KD depending on glycosylation level

Description

Proprotein Convertase, Subtilisin/Kexin-Type, 4, is an enzyme that in humans is encoded by the PCSK4 gene. The gene was mapped to mouse chromosome 10, close to the adipsin locus and near the gene encoding anti-mullerian hormone. Qiu et al.(2005) found that aberrant processing of pro-IGF2 may be a cause of IUGR. PCSK4 cleaved pro-IGF2 to generate the intermediate processed form, IGF2(1-102). Mature IGF2(1-67), likely resulting from further processing by carboxypeptidases, is capable of activating invasive trophoblast cells through AKT phosphorylation. Inhibition of the protein by a PCSK4-specific inhibitor blocked pro-IGF2 processing and reduced trophoblast cell migration.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Proprotein Convertase 4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of mouse Proprotein convertase 4 (DPWFSKQWYMNKEIQQD) was used as the immunogen for this Proprotein Convertase 4 antibody.

Storage

After reconstitution, the Proprotein Convertase 4 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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