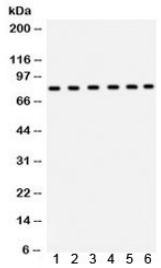
TRPV5 Antibody (R32330)

Catalog No.	Formulation	Size
R32330	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, 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
UniProt	Q9NQA5
Applications	Western blot: 0.1-0.5ug/ml
Limitations	This TRPV5 antibody is available for research use only.



Western blot testing of rat 1) pancreas, 2) lung, 3) intestine, and human 4) SW620, 5) COLO320 and 6) 293 lysate with TRPV5 antibody. Predicted/observed molecular weight: ~83 kDa.

Description

Transient receptor potential cation channel subfamily V member 5 is a protein that in humans is encoded by the TRPV5 gene. This gene is a member of the transient receptor family and the TrpV subfamily. The calcium-selective channel encoded by this gene has 6 transmembrane-spanning domains, multiple potential phosphorylation sites, an N-linked glycosylation site, and 5 ANK repeats. And this protein forms homotetramers or heterotetramers and is activated by a low internal calcium level. In addition, TRPV5 is mainly expressed in kidney epithelial cells, where it plays an important role in the reabsorption of Ca2+. Genetic deletion of TRPV5 in mice leads to Ca2+ loss in the urine, and consequential hyperparathyroidism, and bone loss.

Application Notes

Optimal dilution of the TRPV5 antibody should be determined by the researcher.

Immunogen

Amino acids DTHWRVAQERDELWRAQVVATTVMLERKLPR of human TRPV5 were used as the immunogen for the TRPV5 antibody.

Storage

After reconstitution, the TRPV5 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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