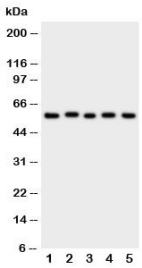
ASIC3 Antibody / ACCN3 (R31038)

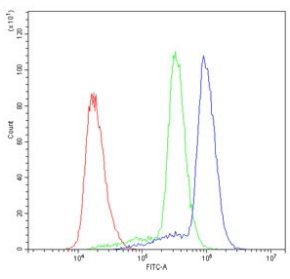
Catalog No.	Formulation	Size
R31038	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
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	Q9UHC3
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/10^6 cells
Limitations	This ASIC3 antibody is available for research use only.



Western blot testing of ASIC3 antibody and Lane 1: rat brain; 2: (r) testis; 3: human U87; 4: mouse Neuro-2a; 5: (h) SMMC-7721 cell lysate. Expected/observed molecular weight: ~59 kDa.



Flow cytometry testing of human U937 cells with ASIC3 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ASIC3 antibody.

Description

Acid-Sensing Ion Channel 3, also known as Testis sodium channel (TNAC1) or Dorsal root acid-sensing ion channel (DRASIC), is a protein that in humans is encoded by the ASIC3 gene. ASIC3 belongs to a family of acid-sensing channel proteins that are structurally related to epithelial sodium channel proteins and support acid-activated membrane currents. By radiation hybrid analysis, de Weille et al.(1998) mapped the gene to chromosome 7q35. De Weille et al.(1998) found that the human protein supported an H(+)-gated cation current in COS cells with kinetics similar to those of the rat protein. Babinski et al. (1999) expressed homomeric human ASIC3 channels in Xenopus oocytes and found that rapid reduction in extracellular pH resulted in a biphasic response characterized by a fast and rapidly desensitizing current followed by a slow and sustained current that returned to baseline only on return to physiologic pH.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ASIC3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Acid-Sensing Ion Channel 3 (FLYQVAERVRYYREFHHQ) was used as the immunogen for this ASIC3 antibody.

Storage

After reconstitution, the ASIC3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.