For Research Use Only

TRPM5 Polyclonal antibody

Catalog Number: 18027-1-AP

Featured Product

10 Publications



Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 18027-1-AP BC093787 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 600 ug/ml by 29850 WB: 1:500-1:1000 Nanodrop: IHC: 1:50-1:500 UNIPROT ID: IF: 1:50-1:200 Source Q9NZQ8 FC (Intra): 0.40 ug per 10^6 cells in a Rabbit Full Name: 100 µl suspension Isotype transient receptor potential cation channel, subfamily M, member 5 lgG Immunogen Catalog Number: Calculated MW: AG12593 98 kDa. 131 kDa **Observed MW:** 98 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF, FC (Intra), ELISA WB: mouse liver tissue, **Cited Applications:** IHC : human small intestine tissue, WB, IHC, IF IF : mouse olfactory epithelium tissue, Species Specificity: FC (Intra) : LNCaP cells, human, mouse, rat **Cited Species:** human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Transient receptor potential (TRP) proteins are a diverse family of proteins with structural features typical of ion **Background Information** channels (PMID: 14634208). TRPM5 is a member of the TRPM (melastatin-like) subfamily which are Ca(2+)permeable cation channels localized predominantly to the plasma membrane (PMID: 11864597). TRPM5 plays a central role in taste transduction (PMID: 17610722). TRPM5 is implicated in enhancing TRPA1 expression and may be involved in regulating insulin secretion (PMID: 21932052). Alternative splicing results in transcript variants encoding distinct isoforms with calculated molecular weights of 98 kDa or 131 kDa. It has been reported that TRPM5 is N-linked glycosylated at a unique site and TRPM5 glycosylation seems not to be involved in channel trafficking, but mainly in its functional regulation (PMID: 24605085). **Notable Publications** Author Pubmed ID Journal Application Lynnette Phillips McCluskey 31669578 IF Appetite WB Zhen Xiong 35320705 Immunity Kunitoshi Uchida ١F 33553759 Heliyon 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 *** 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact: This product is exclusively available under Proteintech

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Selected Validation Data

temperature for 1.5 hours.



mouse liver tissue were subjected to SDS PAGE followed by western blot with 18027-1-AP (TRPM5 antibody) at dilution of 1:500 incubated at room



Fluorescent IHC on 1%PLP fixed frozen mouse olfactory epithelium tissue of TRPM5 antibody (18027-1-AP, 1:200). Microvillar cell staining in the apical layer. By Dr. Brian Lin (Schwob Lab).



Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 18027-1-AP (TRPM5 antibody) at dilution of 1:200 (under 10x lens)..



Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 18027-1-AP (TRPM5 antibody) at dilution of 1:200 (under 40x lens)..



1x10^6 LNCaP cells were intracellularly stained with 0.4 ug TRPM5 Polyclonal antibody (18027-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).