

For Research Use Only

TRPM8 Polyclonal antibody

Catalog Number: 12813-1-AP

5 Publications



Basic Information

Catalog Number: 12813-1-AP	GenBank Accession Number: BC001135	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 79054	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q7Z2W7	IF/ICC 1:10-1:100
Isotype: IgG	Full Name: transient receptor potential cation channel, subfamily M, member 8	
Immunogen Catalog Number: AG3483	Calculated MW: 1104 aa, 128 kDa	

Applications

Tested Applications: IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	IHC : human liver cancer tissue, human prostate cancer tissue, human colon cancer tissue
Species Specificity: human	IF/ICC : SH-SY5Y cells,
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

TRPM8, also known as CMR1 (cold-menthol receptor-1), is a nonselective cation channel activated by cold and the cooling substances menthol and icilin (PMID: 11893340; 11882888). It serves as a neuronal sensor of cold temperatures. Functioning TRPM8 channels are required for behavioral responses to innocuous cool, noxious cold, injury-evoked cold hypersensitivity, and cooling-mediated analgesia (PMID: 17538622; 21438154; 16920620; 21984952). Additionally, TRPM8 has also been reported to be involved in thermoregulation and the regulation of basal tear flow (PMID: 21407809; 21076394). TRPM8 is expressed extensively in sensory nerves, human prostate and overexpressed in a variety of cancers including prostate, breast, lung, colon and skin melanomas (PMID: 11325849; 20816009).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiyuan Zhou	36517318	J Dermatol Sci	IHC,IF
Jie Fu	36609627	Cancer Gene Ther	IHC
Xiao-Tao He	35247634	Biomaterials	IF

Storage

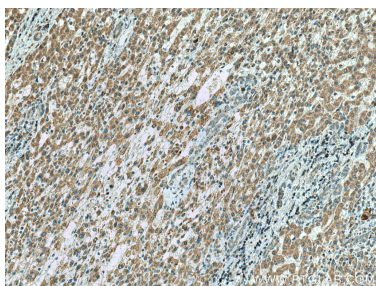
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

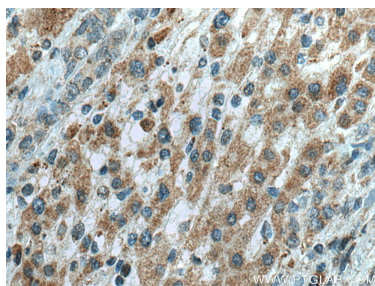
For technical support and original validation data for this product please contact:
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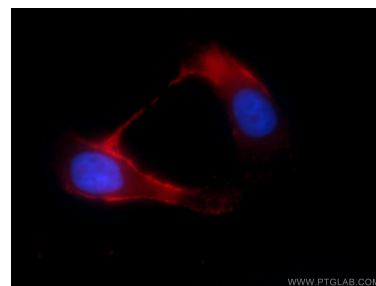
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12813-1-AP (TRPM8 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12813-1-AP (TRPM8 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of SH-SY5Y cells using 12813-1-AP (TRPM8 antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.