

For Research Use Only

TRPM8 Polyclonal antibody

Catalog Number: 12813-1-AP

5 Publications



Basic Information

Catalog Number:

12813-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3483

GenBank Accession Number:

BC001135

GeneID (NCBI):

79054

UNIPROT ID:

Q7Z2W7

Full Name:

transient receptor potential cation channel, subfamily M, member 8

Calculated MW:

1104 aa, 128 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

IF/ICC 1:10-1:100

Applications

Tested Applications:

IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

IHC : human liver cancer tissue, human prostate cancer tissue, human colon cancer tissue

IF/ICC : SH-SY5Y cells,

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

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

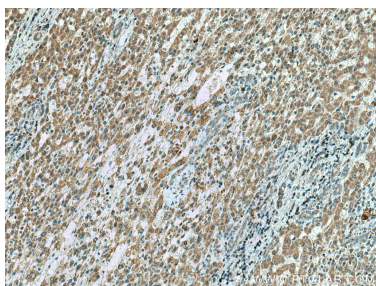
T: 4006900926

E: Proteintech-CN@ptglab.com

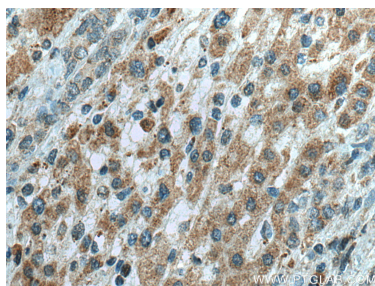
W: ptgcn.com

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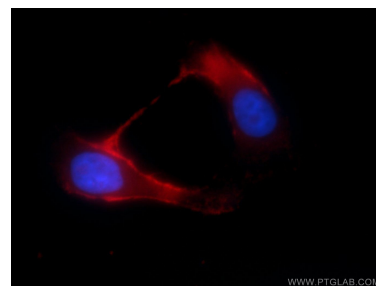
Selected Validation Data



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.