

For Research Use Only

# TRPM8 Polyclonal antibody

Catalog Number: 12813-1-AP **4 Publications**



## Basic Information

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

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, ELISA	<b>Positive Controls:</b> IHC : human liver cancer tissue, human prostate cancer tissue, human colon cancer tissue IF : SH-SY5Y cells,
<b>Cited Applications:</b> IF, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> 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

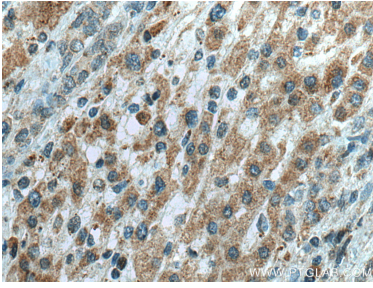
## Storage

**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

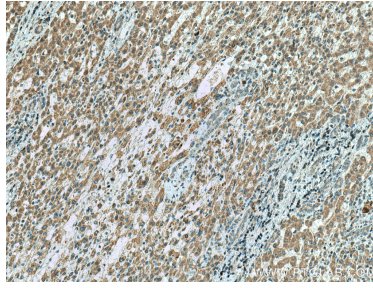
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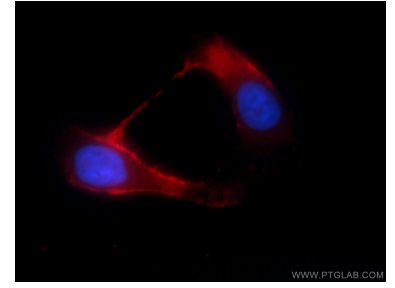
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 12813-1-AP (TRPM8 antibody) at dilution of 1:200 (under 40x 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 10x 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.