

For Research Use Only

# TRPA1 Polyclonal antibody

Catalog Number: 19124-1-AP **20 Publications**



## Basic Information

<b>Catalog Number:</b> 19124-1-AP	<b>GenBank Accession Number:</b> NM_007332	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8989	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O75762	
<b>Isotype:</b> IgG	<b>Full Name:</b> transient receptor potential cation channel, subfamily A, member 1	
	<b>Calculated MW:</b> 140 kDa	
	<b>Observed MW:</b> 120-130 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : SH-SY5Y cells, IHC : mouse cerebellum tissue, mouse brain tissue, rat dorsal root ganglion tissue
<b>Cited Applications:</b> WB, IF, FC, IHC	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, rat, 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

TRPA1, also named as ANKTM1, belongs to the transient receptor family. TRPA1 is a receptor-activated non-selective cation channel involved in detection of pain and possibly also in cold perception and inner ear function. TRPA1 has a central role in the pain response to endogenous inflammatory mediators and to a diverse array of volatile irritants, such as mustard oil, garlic and acrolein, an irritant from tears gas and vehicule exhaust fumes. It acts also as a ionotropic cannabinoid receptor by being activated by delta(9)-tetrahydrocannabinol (THC), the psychoactive component of marijuana. It may be a component for the mechanosensitive transduction channel of hair cells in inner ear, thereby participating in the perception of sounds.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yangqiu Liu	34514518	J Mol Histol	WB,IF,IHC
Torsten Lowin	32873774	Cell Death Dis	FC
Norhiro Suzuki	33188562	Mol Nutr Food Res	WB,IF

## Storage

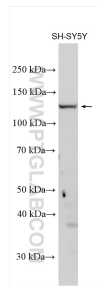
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

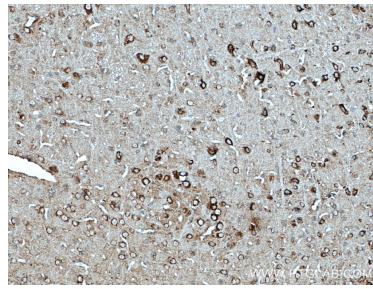
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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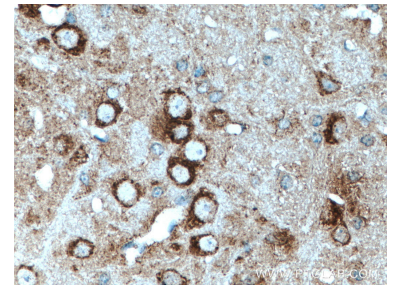
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19124-1-AP (TRPA1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 19124-1-AP (TRPA1 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 mouse cerebellum tissue slide using 19124-1-AP (TRPA1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).