

For Research Use Only

TRPA1 Polyclonal antibody

Catalog Number: 19124-1-AP **19 Publications**



Basic Information

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

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : SH-SY5Y cells, IHC : mouse cerebellum tissue, mouse brain tissue
Cited Applications: FC, IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: 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 vehicle 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
Norihito Suzuki	33188562	Mol Nutr Food Res	WB,IF

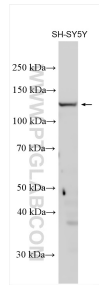
Storage

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

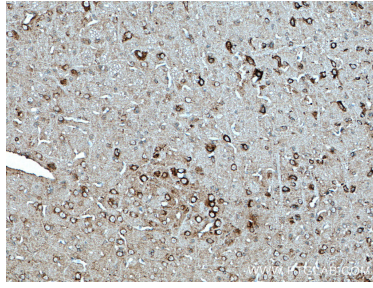
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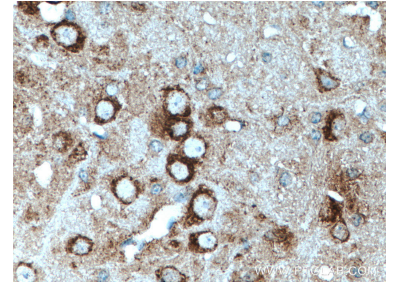
Selected Validation Data



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).