For Research Use Only

TRPA1 Polyclonal antibody

Catalog Number:19124-1-AP 31 Publications

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Basic Information

Catalog Number:
19124-1-AP

Concentration:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_007332

GeneID (NCBI):
8989

UNIPROT ID:
O75762

Full Name:
transient receptor potential cation channel, subfamily A, member 1

Calculated MW:
140 kDa

Observed MW:
120-130 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:4000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : SH-SY5Y cells, SK-N-SH cells, pig colon tissue

IHC : mouse cerebellum tissue, mouse brain tissue, rat dorsal root ganglion tissue

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

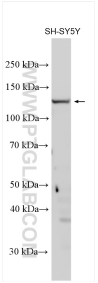
Author	Pubmed ID	Journal	Application
Yangqiu Liu	34514518	J Mol Histol	WB,IHC,IF
Torsten Lowin	32873774	Cell Death Dis	
Norihiro Suzuki	33188562	Mol Nutr Food Res	WB,IF

Storage

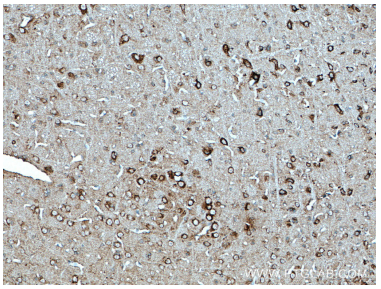
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

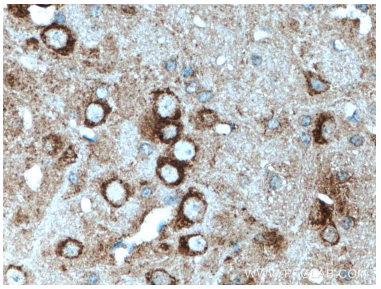
Selected Validation Data



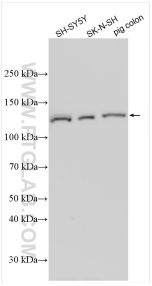
Various lysates were subjected to SDS PAGE followed by western blot with 19124-1-AP (TRPA1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



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).



Various lysates were subjected to SDS PAGE followed by western blot with 19124-1-AP (TRPA1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.