

DATASHEET

TRPA1 Rabbit Polyclonal Antibody

CAT. NO. APA14808

KEY FEATURES

Target	TRPA1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Ligand-activated Ca(2+)-permeable, nonselective cation channel involved in pain detection and possibly also in cold perception, oxygen concentration perception, cough, itch, and inner ear function -permeable, nonselective cation channel involved in pain detection and possibly also in cold perception, oxygen concentration perception, cough, itch, and inner ear function . Has a relatively high Ca(2+) selectivity, with a preference for divalent over monovalent cations (Ca(2+) > Ba(2+) > Mg(2+) > NH4(+) > Li(+) > K(+)), the influx of cation into the cytoplasm leads to membrane depolarization . Has a central role in the pain response to endogenous inflammatory mediators, such as bradykinin and to a diverse array of irritants.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to TRPA1
Specificity	Recognizes endogenous levels of TRPA1 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide of human TRPA1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 127 kD; Observed: 128 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ANKTM1; Transient receptor potential cation channel subfamily A member 1; Ankyrin-like with transmembrane domains protein 1; Transformation-sensitive protein p120
Gene Symbol	TRPA1
Entrez Gene	8989(Human); 277328(Mouse); 312896(Rat)
SwissProt	O75762(Human); Q8BLA8(Mouse); Q6RI86(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

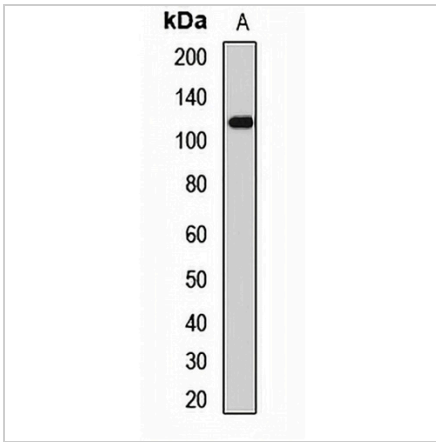
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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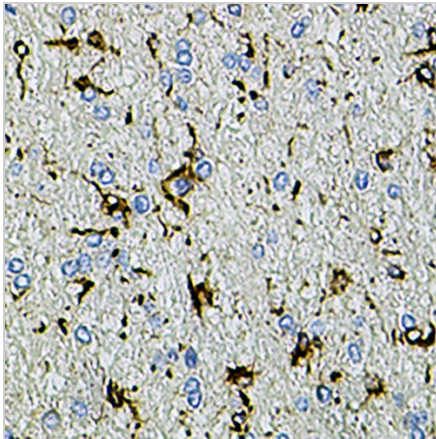
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DATA



Western blot analysis of TRPA1 expression in mouse liver (A) whole cell lysates. (Predicted band size: 127 kD; Observed band size: 128 kD)



Immunohistochemical analysis of TRPA1 staining in rat brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.