

TRPA1 Polyclonal Antibody, HRP

Catalog NumberPA5-22834

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Guinea pig, Human, Mouse, Rat, Zebrafish
Host/Isotope	Rabbit / IgG		
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Assay-Dependent
Immunogen	A synthetic peptide made to a region within the N-terminus (residues 1-100) of the human TRPA1 protein.	Immunohistochemistry (Frozen) (IHC (F))	0.5-1.0 µg/mL
		Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:250
Conjugate	HRP	Western Blot (WB)	2 µg/mL
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	0.84 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	no preservative		
Storage Conditions	4° C, store in dark		

Product specific information

The target sequence has 69% sequence homology with rat. Suggested positive control: human brain membrane fraction.

Background/Target Information

TRPA1 is a TRP-related channel that responds to cold temperatures and pungent compounds and plays a role in both nociceptor and hair cell transduction. TRPA1 is a transformation -associated gene product in lung epithelia, whereas its protein distribution is primarily restricted to sensory neurons. Blocking TRPA1 may be a therapeutic target for treating cold hyperalgesia caused by inflammation and nerve damage. It is now known that TRPA1 protein is also widely expressed outside of the CNS and is dys-regulated during oncogenic transformation. The structure of TRPA1 is highly related to both the protein ankyrin and transmembrane proteins. The specific function of TRPA1 has not yet been determined; however, studies indicate the function may involve a role in signal transduction and growth control.

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