Datasheet for ABIN955341

anti-TRPM8 antibody (Middle Region)

3 Images

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Overview

Quantity:	0.4 mL
Target:	TRPM8
Binding Specificity:	AA 270-300, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRPM8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 270-300 amino acids from the Central region of human TRPM8
Isotype:	Ig Fraction
Specificity:	This antibody detects TRPM8 (Center).
Cross-Reactivity (Details):	Species reactivity (tested):Human
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

Target Details

Target:	TRPM8

Target Details

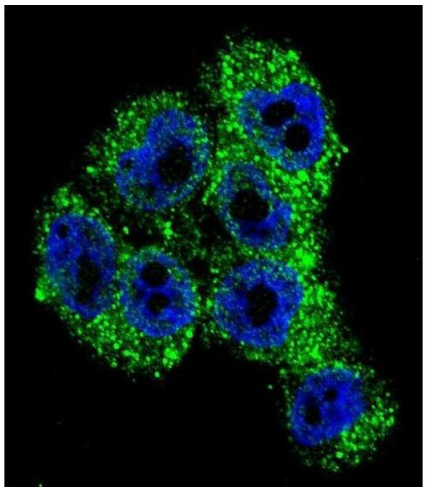
Alternative Name:	TRPM8 (TRPM8 Products)
Background:	Receptor-activated non-selective cation channel involved in detection of sensations such as coolness, by being activated by cold temperature below 25 degrees Celsius. Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH . Involved in menthol sensation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium. Temperature sensing is tightly linked to voltage-dependent gating. Activated upon depolarization, changes in temperature resulting in graded shifts of its voltage-dependent activation curves. The chemical agonists menthol functions as a gating modifier, shifting activation curves towards physiological membrane potentials. Temperature sensitivity arises from a tenfold difference in the activation energies associated with voltage-dependent opening and closing.Synonyms: LTRPC6, Long transient receptor potential channel 6, TRPP8, Transient receptor potential cation channel subfamily M member 8, Transient receptor potential-p8, Trp-p8
Gene ID:	79054
NCBI Accession:	NP_076985

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

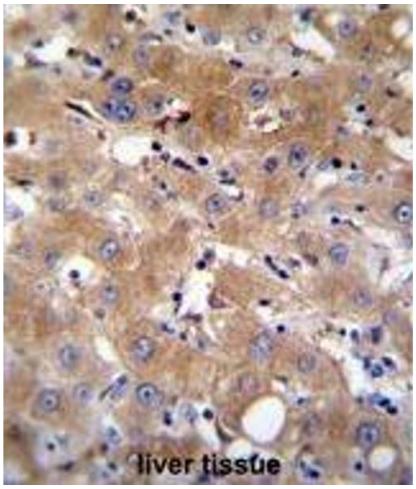
Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS with 0.09 % (W/V) sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to six months or (in aliquots) at -20 °C for longer.



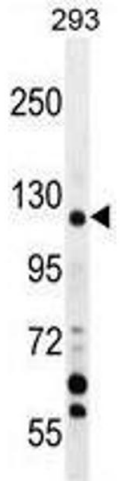
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of TRPM8 Antibody (Center) with A375 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. TRPM8 Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TRPM8 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 3. TRPM8 Antibody (Center) western blot analysis in 293 cell line lysates (35 µg/lane). This demonstrates the TRPM8 antibody detected the TRPM8 protein (arrow).