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TRPM7 (CHAK1) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8052a

Specification

TRPM7 (CHAK1) Antibody (N-term) - Product Information

Application	**IHC-P,E**
Primary Accession	Q96QT4
Other Accession	Q9BXB2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**45-74**

TRPM7 (CHAK1) Antibody (N-term) - Additional Information

Gene ID 54822

Other Names
Transient receptor potential cation channel subfamily M member 7, Channel-kinase 1, Long transient receptor potential channel 7, LTrpC-7, LTrpC7, TRPM7, CHAK1, LTRPC7

Target/Specificity
This TRPM7 (CHAK1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-74 amino acids from the N-terminal region of human TRPM7 (CHAK1).

Dilution
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TRPM7 (CHAK1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TRPM7 (CHAK1) Antibody (N-term) - Protein Information

Name TRPM7

Synonyms CHAK1, LTRPC7

Function Essential ion channel and serine/threonine-protein kinase. Divalent cation channel permeable to calcium and magnesium (PubMed:35561741). Has a central role in magnesium ion homeostasis and in the regulation of anoxic neuronal cell death. Involved in TNF- induced necroptosis downstream of MLKL by mediating calcium influx. The kinase activity is essential for the channel function. May be involved in a fundamental process that adjusts plasma membrane divalent cation fluxes according to the metabolic state of the cell. Phosphorylates annexin A1 (ANXA1).

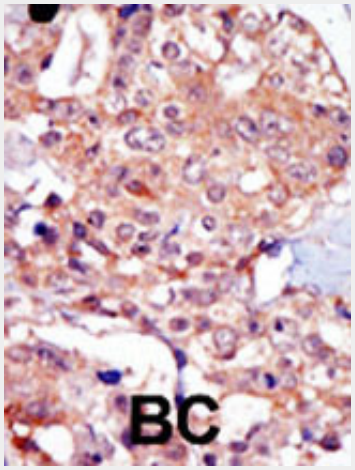
Cellular Location
Membrane; Multi-pass membrane protein

TRPM7 (CHAK1) Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRPM7 (CHAK1) Antibody (N-term) - Images



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

TRPM7 (CHAK1) Antibody (N-term) - Background

TRPCs, mammalian homologs of the Drosophila transient receptor potential (trp) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants.[supplied by OMIM]

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TRPM7 (CHAK1) Antibody (N-term) - References

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TRPM7 (CHAK1) Antibody (N-term) - Citations

- Transient receptor potential melastatin 7-like current in human head and neck carcinoma cells: role in cell proliferation.