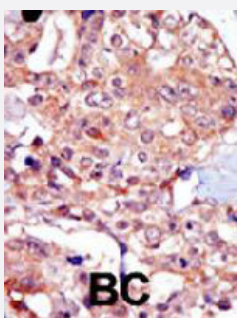


TRPM7 polyclonal antibody

Catalog # PAB3249

Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with TRPM7 polyclonal antibody (Cat # PAB3249), 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TRPM7.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 1821-1850 of human TRPM7.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Saturated Ammonium Sulfate (SAS) precipitation
Recommend Usage	ELISA Immunohistochemistry (1:50~100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide).
Storage Instruction	Store at 4°C for up to 2 weeks. For long term storage, store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with TRPM7 polyclonal antibody (Cat # PAB3249) , 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.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — TRPM7

Entrez GeneID [54822](#)

Protein Accession# [Q96QT4; Q9BXB2](#)

Gene Name TRPM7

Gene Alias CHAK, CHAK1, FLJ20117, FLJ25718, LTRPC7, TRP-PLIK

Gene Description transient receptor potential cation channel, subfamily M, member 7

Omim ID [105500 605692](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations LTRPC ion channel family member 7

Publication Reference

- [Oncogenic kinase signalling.](#)

Blume-Jensen P, Hunter T.

Nature 2001 May; 411(6835):355.

- [Phosphoinositide 3-kinase signalling pathways.](#)

Cantrell DA.

Journal of Cell Science 2001 Apr; 114(Pt 8):1439.

- [The RET proto-oncogene in human cancers.](#)

Jhiang SM.

Oncogene 2000 Nov; 19(49):5590.

Disease

- [Adenoma](#)
- [Adenomatous Polyps](#)
- [Amyotrophic lateral sclerosis](#)
- [Brain Ischemia](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Hyperplasia](#)
- [Parkinson Disease](#)
- [Stroke](#)