

Name: Purified TRPM4 mouse monoclonal antibody, clone 10H5**Catalog:** TA500381**Product Data Sheet**

Gene Name: Homo sapiens transient receptor potential cation channel, subfamily M, member 4 (TRPM4), transcript variant 1
GeneBank accession: NM_017636
Isotype: IgG1

Reactivity: Human , Dog , Monkey
Test application: WB
Clone Name: clone 10H5

Gene Synonym: FLJ20041; PFHB1B; TRPM4B**Validation Data:****Guaranteed Applications:** WB, IHC**Western Blot****Suggested Dilutions:** WB 1:5000~10000, IHC 1:50,**Immunogen:** Full length human recombinant protein of human TRPM4 (NP_060106) produced in HEK293T cell.**Components:**

- Purified TRPM4 mouse monoclonal antibody, clone 10H5 (TA500381)
- 1 vial of 20ug myc-DDK tagged TRPM4 HEK293T over-expression lysate lyophilized in RIPA buffer (LY413636) (Reconstitute into 20ul of 1x SDS sample buffer before loading) (Not available for 30ul sample size)

Amount:

TA500381-100 100 uL

Concentration: 0.5~1.0 mg/ml (Lot Dependent)

Storage Condition: Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use.
 Stable for 12 months from date of receipt.
 Avoid repeated freeze-thaws.

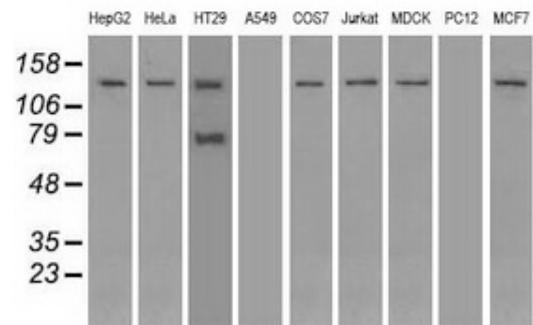
Buffer: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Purification:

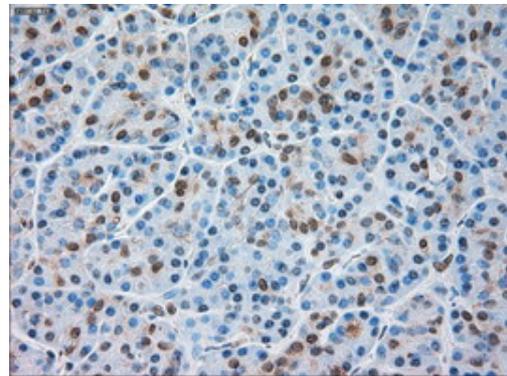
Purified from mouse ascites fluids by affinity chromatography

Background:

Calcium-activated non selective (CAN) cation channel that mediates membrane depolarization. While it is activated by increase in intracellular Ca^{2+} , it is impermeable to it. Mediates transport of monovalent cations ($Na^{+} > K^{+} > Cs^{+} > Li^{+}$), leading to depolarize the membrane. It thereby plays a central role in cardiomyocytes, neurons from entorhinal cortex, dorsal root and vomeronasal neurons, endocrine pancreas cells, kidney epithelial cells, cochlea hair cells etc. Participates in T-cell activation by modulating Ca^{2+} oscillations after T lymphocyte activation, which is required for NFAT-dependent IL2 production. Involved in myogenic constriction of cerebral arteries. Controls insulin secretion in pancreatic beta-cells. May also be involved in pacemaking or could cause irregular electrical activity under conditions of Ca^{2+} overload.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-TRPM4 monoclonal antibody.

IHC data

Immunohistochemical staining of paraffin-embedded Human pancreas tissue using anti-TRPM4 mouse monoclonal antibody. (TA500381)

Related Product:

TrueORF cDNA clones
 VERIFY Tagged Antigen lysates
 HuSH-29 shRNA
 Western Blot reagents
 Anti-myc/DDK tag antibodies

* Peptide sequence of the DDK-tag (Flag®): N-DYKDDDDK-C Flag® is a registered trademark of Sigma-Aldrich

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 Distributed by

UK & Rest of World

184 Milton Park, Abingdon
 OX14 4SE, Oxon, UK
 Tel: +44 (0) 1235 828 200
 Fax: +44 (0) 1235 820 482

Switzerland

Centro Nord-Sud 2E
 CH-6934 Bioggio-Lugano
 Tel: +41 (0) 91 604 55 22
 Fax: +41 (0) 91 605 17 85

Deutschland

Bockenheimer Landstr. 17/19
 60325 Frankfurt/Main
 Tel: +49 (0) 69 779099
 Fax: +49 (0) 69 13376880

North America

23591 El Toro Rd, Suite #167
 Lake Forest, CA 92630
 Tel: + 1 800 987 0985
 Fax: + 1 949 265 7703

amsbio

info@amsbio.com

www.amsbio.com
AMS Biotechnology