10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRPV5 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant TRPV5.
Catalog # AT4372a

Product Information

Application	WB
Primary Accession	Q9NQA5
Other Accession	NM_019841
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6D6
Calculated MW	82562

Additional Information

Gene ID	56302
Other Names	Transient receptor potential cation channel subfamily V member 5, TrpV5, Calcium transport protein 2, CaT2, Epithelial calcium channel 1, ECaC, ECaC1, Osm-9-like TRP channel 3, OTRPC3, TRPV5, ECAC1
Target/Specificity	TRPV5 (NP_062815, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TRPV5 Antibody (monoclonal) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

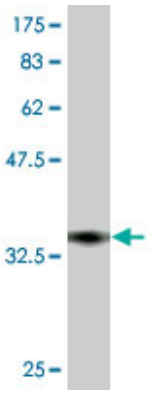
This gene is a member of the transient receptor family and the TrpV subfamily. The calcium-selective channel encoded by this gene has 6 transmembrane-spanning domains, multiple potential phosphorylation sites, an N-linked glycosylation site, and 5 ANK repeats. This protein forms homotetramers or heterotetramers and is activated by a low internal calcium level.

References

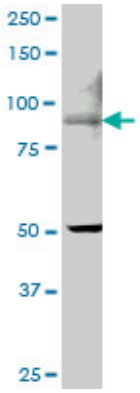
TRPV-5 mediates a receptor activator of NF-kappaB (RANK) ligand-induced increase in cytosolic Ca2+ in

human osteoclasts and down-regulates bone resorption. Chamoux E, et al. J Biol Chem, 2010 Aug 13. PMID 20547482.Expression of transient receptor potential vanilloid channels TRPV5 and TRPV6 in retinal pigment epithelium. Kennedy BG, et al. Mol Vis, 2010 Apr 14. PMID 20405023.High-density association study of 383 candidate genes for volumetric BMD at the femoral neck and lumbar spine among older men. Yerges LM, et al. J Bone Miner Res, 2009 Dec. PMID 19453261.Parathyroid hormone activates TRPV5 via PKA-dependent phosphorylation. de Groot T, et al. J Am Soc Nephrol, 2009 Aug. PMID 19423690.Endogenous expression of TRPV5 and TRPV6 calcium channels in human leukemia K562 cells. Semenova SB, et al. Am J Physiol Cell Physiol, 2009 May. PMID 19295174.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



TRPV5 monoclonal antibody (M06), clone 6D6. Western Blot analysis of TRPV5 expression in IMR-32 ((Cat # AT4372a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.