

TRPV5 Antibody (monoclonal) (M02)
Mouse monoclonal antibody raised against a partial recombinant TRPV5.
Catalog # AT4371a

Specification

TRPV5 Antibody (monoclonal) (M02) - Product Information

Application	WB, E
Primary Accession	O9NQA5
Other Accession	NM_019841
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	82562

TRPV5 Antibody (monoclonal) (M02) - 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

E~~N/A

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) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

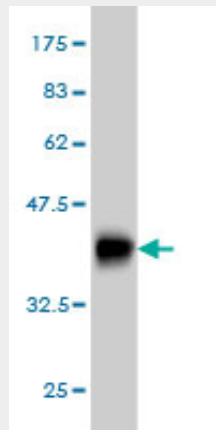
TRPV5 Antibody (monoclonal) (M02) - Protocols

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

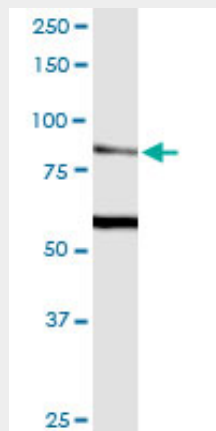
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

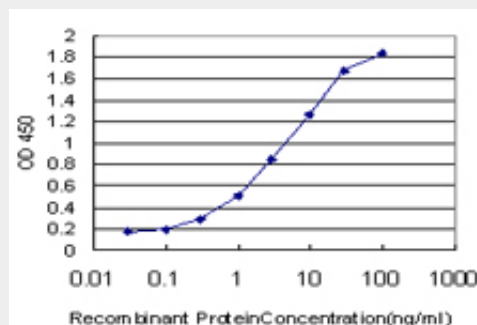
TRPV5 Antibody (monoclonal) (M02) - Images



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



TRPV5 monoclonal antibody (M02), clone 2A6. Western Blot analysis of TRPV5 expression in human kidney.



Detection limit for recombinant GST tagged TRPV5 is approximately 0.03ng/ml as a capture antibody.

TRPV5 Antibody (monoclonal) (M02) - 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.

TRPV5 Antibody (monoclonal) (M02) - 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.