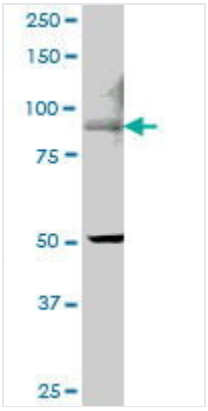
TRPV5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TRPV5, Monoclonal Antibody
Full Product Name	TRPV5 (Transient Receptor Potential Cation Channel, Subfamily V, Member 5, CAT2, ECAC1, OTRPC3) (AP)
Product Gene Name	anti-TRPV5 antibody
Product Synonym Names	Transient Receptor Potential Cation Channel; Subfamily V; Member 5; CAT2; ECAC1; OTRPC3
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6D6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified
Specificity	Recognizes TRPV5.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	80kDa
3D Structure	ModBase 3D Structure for Q9NQA5
Immunogen	TRPV5 (NP_062815, 1aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MGGFLPKAEGPGSQLQKLLPSFLVREQDWDQHLDKLHMLQQKRILESPLLRASKENDLSVLRQLLLDCTCDVRQRGALGETALHIAALYDNLEAALVLME
Conjugate	AP
Product Categories/Family for anti-TRPV5 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-TRPV5 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-TRPV5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TRPV5 antibody	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. [provided by RefSeq]

Other Notes	Small volumes of anti-TRPV5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRPV5 purchase	MBS6163859 is an antibody targeting TRPV5. Also known as TRPV5 (Transient Receptor Potential Cation Channel, Subfamily V, Member 5, CAT2, ECAC1, OTRPC3) (AP). Host: Mouse.



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

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPV5. It may not necessarily be applicable to this product.

NCBI GI #	730229359
NCBI GeneID	56302
NCBI Accession #	NP_062815
UniProt Primary Accession #	Q9NQA5
UniProt Related Accession #	Q9NQA5
GenBank Nucleotide #	NM_019841.6
NCBI Official Full Name	transient receptor potential cation channel subfamily V member 5
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily V member 5
NCBI Official Symbol	TRPV5
NCBI Official Synonym Symbols	CAT2; ECAC1; OTRPC3
UniProt Protein Name	Transient receptor potential cation channel subfamily V member 5
UniProt Synonym Protein Names	Calcium transport protein 2; CaT2; Epithelial calcium channel 1
Protein Family	Transient receptor potential cation channel subfamily
UniProt Gene Name	TRPV5
UniProt Synonym Gene Names	ECAC11 PublicationManual assertion based on opinion iniRef.1; ECaC; ECaC1; OTRPC3
NCBI Protein Information	transient receptor potential cation channel subfamily V member 5
UniProt Comments for TRPV5	Constitutively active calcium selective cation channel thought to be involved in Ca2+ reabsorption in kidney and intestine (PubMed:11549322, PubMed:18768590). Required for normal Ca2+ reabsorption in the kidney distal convoluted tubules (). The channel is activated by low internal calcium level and the current exhibits an inward rectification (PubMed:11549322, PubMed:18768590). A Ca2+-dependent feedback regulation includes fast channel inactivation and slow current decay (). Heteromeric assembly with TRPV6 seems to modify channel properties. TRPV5-TRPV6 heteromultimeric concatemers exhibit voltage-dependent gating ().

Research Articles on TRPV5	**1.** TRPV5 and TRPV6 lack a positively charged residue in the TM4-TM5 loop that was shown to interact with PI(4,5)P2 in TRPV1, which shows high affinity for this lipid
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