Short Transient Receptor Potential Channel 5 (TRPC5) ELISA Kit for Duck

PRODUCT OVERVIEW

Product Name	Short Transient Receptor Potential Channel 5 (TRPC5), ELISA Kit
Full Product Name	Duck Short Transient Receptor Potential Channel 5 (TRPC5) ELISA Kit
Product Gene Name	TRPC5 elisa kit
Species Reactivity	Duck
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	111,412 Da
OMIM	AF054568 mRNA
3D Structure	ModBase 3D Structure for Q9UL62
Related Product Information for TRPC5 elisa kit	MBS9389166 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Short Transient Receptor Potential Channel 5 (TRPC5) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TRPC5. The ELISA analytical biochemical technique of the MBS9389166 kit is based on TRPC5 antibody-TRPC5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TRPC5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TRPC5. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of TRPC5 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRPC5. It may not necessarily be applicable to this product.

NCBI GI #	6912736
NCBI GeneID	7224
NCBI Accession #	NP_036603.1
UniProt Primary Accession #	Q9UL62
UniProt Secondary Accession #	O75233; Q5JXY8; Q9Y514; B2RP53
UniProt Related Accession #	Q9UL62
GenBank Nucleotide #	NM_012471.2
NCBI Official Full Name	short transient receptor potential channel 5
NCBI Official Synonym Full Names	transient receptor potential cation channel subfamily C member 5
NCBI Official Symbol	TRPC5
NCBI Official Synonym Symbols	TRP5; PPP1R159
UniProt Protein Name	Short transient receptor potential channel 5
UniProt Synonym Protein Names	Transient receptor protein 5; TRP-5; hTRP-5; hTRP5

Protein Family	Short transient receptor potential channel
UniProt Gene Name	TRPC5
UniProt Synonym Gene Names	TRP5; TrpC5; TRP-5; hTRP-5; hTRP5
NCBI Protein Information	short transient receptor potential channel 5
NCBI Summary for TRPC5	This gene belongs to the transient receptor family. It encodes one of the seven mammalian TRPC (transient receptor potential channel) proteins. The encoded protein is a multi-pass membrane protein and is thought to form a receptor-activated non-selective calcium permeant cation channel. The protein is active alone or as a heteromultimeric assembly with TRPC1, TRPC3, and TRPC4. It also interacts with multiple proteins including calmodulin, CABP1, enkurin, Na(+)-H+ exchange regulatory factor (NHERF), interferon-induced GTP-binding protein (MX1), ring finger protein 24 (RNF24), and SEC14 domain and spectrin repeat-containing protein 1 (SESTD1). [provided by RefSeq, May 2010]
UniProt Comments for TRPC5	TRPC5: Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Has also been shown to be calcium-selective. May also be activated by intracellular calcium store depletion. Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC5 sub-subfamily. Protein type: Channel, cation; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: Xq23 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: calcium channel activity; protein binding; store-operated calcium channel activity Biological Process: calcium ion transport; cytosolic calcium ion homeostasis; manganese ion transport; nervous system development
Research Articles on TRPC5	**1.** TrpC5 plays an important role in VEGF-mediated tumor angiogenesis, suggesting its potential clinical value for anti-angiogenesis therapy
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