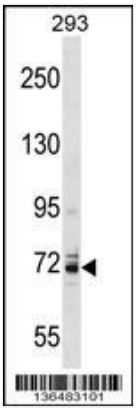
KCNC4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNC4, Polyclonal Antibody
Full Product Name	KCNC4, CT (KCNC4, Potassium voltage-gated channel subfamily C member 4, KSHIIIC, Voltage-gated potassium channel subunit Kv3.4) (APC)
Product Gene Name	anti-KCNC4 antibody
Product Synonym Names	KCNC4; Potassium voltage-gated channel subfamily C member 4; KSHIIIC; Voltage-gated potassium channel subunit Kv3.4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. 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. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	68,824 Da
OMIM	176265
3D Structure	ModBase 3D Structure for Q03721
Immunogen	KCNC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 517-546 amino acids from the C-terminal region of human KCNC4.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-KCNC4 antibody	Antibodies; Ion Channel
Applications Tested/Suitable for anti-KCNC4 antibody	Western Blot (WB), FLISA
Application Notes for anti-KCNC4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-KCNC4 antibody	The Shaker gene family of Drosophila encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. It generates atypical voltage-dependent transient current that may be important for neuronal excitability. Multiple transcript variants have been found for this gene.

Product References and Citations for anti-KCNC4 antibody	Mosing, M.A., et al. Twin Res Hum Genet 13(4):398-403(2010). Menendez, S.T., et al. J. Pathol. 221(4):402-410(2010). Leblanc, N. Cardiovasc. Res. 86(3):351-352(2010). Miguel-Velado, E., et al. Cardiovasc. Res. 86(3):383-391(2010). Abbott, G.W., et al. FASEB J. 20(2):293-301(2006).
Other Notes	Small volumes of anti-KCNC4 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 KCNC4 purchase	MBS6312336 is an antibody targeting KCNC4. Also known as KCNC4, CT (KCNC4, Potassium voltage-gated channel subfamily C member 4, KSHIIIC, Voltage-gated potassium channel subunit Kv3.4) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-KCNC4 antibody
KCNC4 Antibody (C-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the KCNC4 antibody detected the KCNC4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNC4. It may not necessarily be applicable to this product.

NCBI GI #	24497462
NCBI GeneID	3749
NCBI Accession #	NP_004969.2
UniProt Primary Accession #	Q03721
UniProt Secondary Accession #	Q3MIM4; Q5TBI6
UniProt Related Accession #	Q03721
GenBank Nucleotide #	NM_004978.4
NCBI Official Full Name	potassium voltage-gated channel subfamily C member 4 isoform a
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily C member 4
NCBI Official Symbol	KCNC4
NCBI Official Synonym Symbols	KV3.4; C1orf30; KSHIIIC; HKSHIIIC
UniProt Protein Name	Potassium voltage-gated channel subfamily C member 4
UniProt Synonym Protein Names	KSHIIIC; Voltage-gated potassium channel subunit Kv3.4
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCNC4
UniProt Entry Name	KCNC4_HUMAN
NCBI Protein Information	potassium voltage-gated channel subfamily C member 4

UniProt Comments for KCNC4	Kv3.4: This protein mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. Belongs to the potassium channel family. C (Shaw) (TC 1.A.1.2) subfamily. Kv3.4/KCNC4 sub-subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Channel, potassium; Membrane protein, integral Chromosomal Location of Human Ortholog: 1p21 Cellular Component: voltage-gated potassium channel complex; plasma membrane; integral to membrane; nerve terminal; neuromuscular junction Molecular Function: voltage-gated potassium channel activity; potassium channel activity; delayed rectifier potassium channel activity Biological Process: synaptic transmission; regulation of neurotransmitter secretion; protein homooligomerization; potassium ion transport
Research Articles on KCNC4	**1.** This study provides original evidence to demonstrate the early occurrence and high prevalence of abnormal Kv3.4 expression in oral leucoplakias. Our results support a role for Kv3.4 potassium channel in OSCC tumorigenesis rather than tumour progression and disease outcome.
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