

TMEM63C antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI13037

Product Information

Application	WB
Primary Accession	Q9P1W3
Other Accession	NM_020431 , NP_065164
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	93317

Additional Information

Gene ID	57156
Alias Symbol	C14orf171
Other Names	Calcium permeable stress-gated cation channel 1, Transmembrane protein 63C, TMEM63C, C14orf171, CSC1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-TMEM63C antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	TMEM63C antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

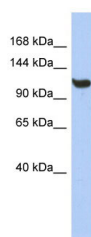
Name	TMEM63C {ECO:0000303 PubMed:35718349, ECO:0000312 HGNC:HGNC:23787}
Function	Acts as an osmosensitive cation channel preferentially activated upon hypotonic stress (PubMed: 24503647 , PubMed: 35718349). In contrast to TMEM63B, does not show phospholipid scramblase activity (PubMed: 39716028). Enriched in mitochondria-ER contact sites where it may regulate the metabolite flux and organelles' morphologies in response to osmotic changes (PubMed: 35718349). In particular may regulate mitochondrial motility and function in motor neuron axons (PubMed: 35718349). Required for the functional integrity of the kidney glomerular filtration barrier (By similarity).

Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Localizes at mitochondria-ER contact sites.
Tissue Location	Expressed in podocytes of kidney glomeruli (PubMed:30900988). Significantly reduced expression in patients with focal segmental glomerulosclerosis (PubMed:30900988)

References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Heilig R.,et al.Nature 421:601-607(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Li W.B.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Images



WB Suggested Anti-TMEM63C Antibody Titration: 0.2-1
µg/ml
ELISA Titer: 1:62500
Positive Control: THP-1 cell lysate

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