

KD-Validated Anti-Transmembrane Protein 43 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1741

Product Information

Application	WB, FC
Primary Accession	Q9BTV4
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2325
Calculated MW	44876
Gene Name	TMEM43
Aliases	TMEM43; Transmembrane Protein 43; LUMA; DKFZp586G1919; MGC3222; ARVD5; Arrhythmogenic Right Ventricular Dysplasia 5; EDMD7; AUNA2; Protein LUMA; ARVC5; AUNA3; EDMD7
Immunogen	A synthesized peptide derived from human TMEM43

Additional Information

Gene ID	79188
Other Names	Transmembrane protein 43, Protein LUMA, TMEM43

Protein Information

Name	TMEM43
Function	May have an important role in maintaining nuclear envelope structure by organizing protein complexes at the inner nuclear membrane. Required for retaining emerin at the inner nuclear membrane (By similarity). Plays a role in the modulation of innate immune signaling through the cGAS-STING pathway by interacting with RNF26 (PubMed: 32614325). In addition, functions as a critical signaling component in mediating NF-kappa-B activation by acting downstream of EGFR and upstream of CARD10 (PubMed: 27991920). Contributes to passive conductance current in cochlear glia-like supporting cells, mediated by gap junctions and necessary for hearing and speech discrimination (PubMed: 34050020).
Cellular Location	Endoplasmic reticulum membrane. Nucleus inner membrane; Multi-pass membrane protein. Cell membrane Note=Retained in the inner nuclear membrane through interaction with EMD and A- and B-lamins. The N- and C-termini are oriented towards the nucleoplasm. The majority of the hydrophilic domain resides in the endoplasmic reticulum lumen (By similarity).

Tissue Location

Highest expression in placenta. Also found at lower levels in heart, ovary, spleen, small intestine, thymus, prostate and testis.

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