
Product Name: KD-Validated Transmembrane Protein 43 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00860**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 44.9kDa

Antigen Information

Gene Name	TMEM43 TMEM43; Transmembrane Protein 43; LUMA; DKFZp586G1919; MGC3222; ARVD5;
Alternative Names	Arrhythmogenic Right Ventricular Dysplasia 5; EDMD7; AUNA2; Protein LUMA; ARVC5; AUNA3; EDMD7
Gene ID	79188.0
SwissProt ID	Q9BTV4
Immunogen	A synthesized peptide derived from human TMEM43

Background

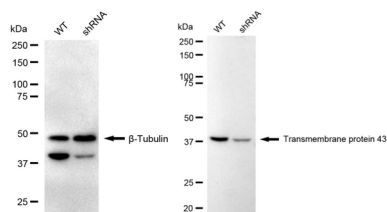
This gene belongs to the TMEM43 family. Defects in this gene are the cause of familial arrhythmogenic right ventricular

dysplasia type 5 (ARVD5), also known as arrhythmogenic right ventricular cardiomyopathy type 5 (ARVC5). Arrhythmogenic right ventricular dysplasia is an inherited disorder, often involving both ventricles, and is characterized by ventricular tachycardia, heart failure, sudden cardiac death, and fibrofatty replacement of cardiomyocytes. This gene contains a response element for PPAR gamma (an adipogenic transcription factor), which may explain the fibrofatty replacement of the myocardium, a characteristic pathological finding in ARVC. [provided by RefSeq, Oct 2008]

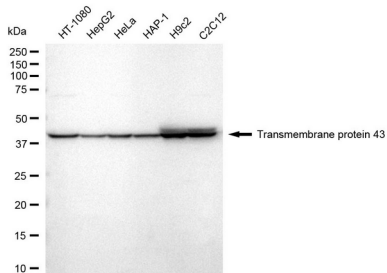
Research Area

Tags & Cell Markers, Signal Transduction

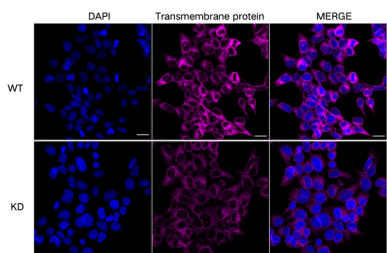
Image Data



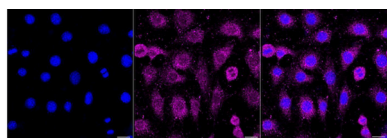
Western blotting analysis using Transmembrane protein 43 antibody (KVA00860). Transmembrane protein 43 expression in wild type (WT) and Transmembrane protein 43 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Transmembrane protein 43 antibody (KVA00860, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



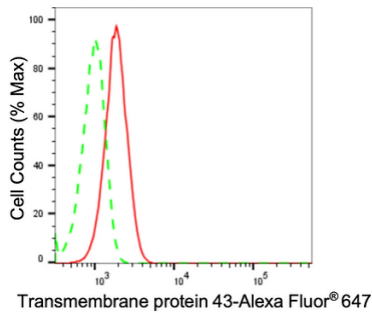
Western blotting analysis using transmembrane protein 43 antibody (KVA00860). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transmembrane protein 43 antibody (KVA00860, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using transmembrane protein 43 antibody (KVA00860, 1:1,000). Top panel: wild-type (WT); Bottom panel: Transmembrane protein 43 shRNA knockdown (KD). Nuclei were stained blue with DAPI; transmembrane protein 43 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of C2C12 cells with Transmembrane protein 43 antibody (KVA00860, 1:1,000). Nuclei were stained blue with DAPI; Transmembrane protein 43 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Transmembrane protein 43 expression in C2C12 cells using Transmembrane protein 43 antibody (KVA00860, 1:2,000). Green, isotype control; red, Transmembrane protein 43.