
Product Name: KD-Validated TMEM173 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01821

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 42.2kDa

Antigen Information

Gene Name	STING1 STING1; Stimulator Of Interferon Response CGAMP Interactor 1; STING; ERIS; MITA; Transmembrane; Protein 173; TMEM173; NET23; MPYS; Endoplasmic Reticulum Interferon Stimulator; Stimulator Of Interferon Genes Protein; Endoplasmic Reticulum IFN Stimulator;
Alternative Names	FLJ38577; HSTING; HMITA; N-Terminal Methionine-Proline-Tyrosine-Serine Plasma Membrane Tetraspanner; Mitochondrial Mediator Of IRF3 Activation; Stimulator Of Interferon Protein; Stimulator Of Interferon Gene; Mediator Of IRF3 Activation; STING-Beta; Sting 1; SAVI
Gene ID	340061.0
SwissProt ID	Q86WV6
Immunogen	A synthesized peptide derived from human TMEM173

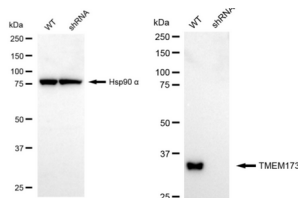
Background

This gene encodes a five transmembrane protein that functions as a major regulator of the innate immune response to viral and bacterial infections. The encoded protein is a pattern recognition receptor that detects cytosolic nucleic acids and transmits signals that activate type I interferon responses. The encoded protein has also been shown to play a role in apoptotic signaling by associating with type II major histocompatibility complex. Mutations in this gene are the cause of infantile-onset STING-associated vasculopathy. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

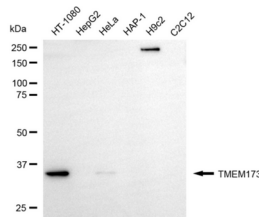
Research Area

Immunology,Signal Transduction,Epigenetics and Nuclear Signaling,Cancer

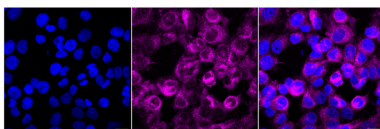
Image Data



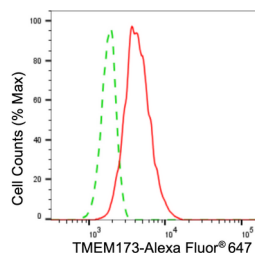
Western blotting analysis using TMEM173 antibody (KVA01821). TMEM173 expression in wild type (WT) and STING1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TMEM173 antibody (KVA01821, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. STING1, Stimulator Of Interferon Response CGAMP Interactor 1.



Western blotting analysis using TMEM173 antibody (KVA01821). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TMEM173 antibody (KVA01821, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with TMEM173 antibody (KVA01821, 1:1,000). Nuclei were stained blue with DAPI; TMEM173 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 TMEM173 expression in HT-1080 cells using TMEM173 antibody (KVA01821, 1:2,000). Green, isotype control; red, TMEM173.