

产品名称: TMEM173 (3U7) Rabbit Monoclonal Antibody
产品货号: AMRe19051



产品概述 (Summary)

产品名称 (Production Name)	TMEM173 (3U7) Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,FC,IP
种属反应性 (Reactivity)	Human

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	STING
别名 (Alternative Names)	ERIS; hMITA; hSTING; MITA; MPYS; NET23; STING; Tmem173; STING1 ; Stimulator of interferon genes protein;
基因 ID (Gene ID)	340061.0
蛋白 ID (SwissProt ID)	Q86WV6.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:500-1:2000,ICC/IF 1:100-1:200,FC 1:200-1:500,IP 1:20-1:50
蛋白分子量 (Molecular Weight)	42kDa

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研究背景 (Background)

Facilitator of innate immune signaling that promotes the production of type I interferon (IFN-alpha and IFN-beta). Innate immune response is triggered in response to non-CpG double-stranded DNA from viruses and bacteria delivered to the cytoplasm. Facilitator of innate immune signaling that acts as a sensor of cytosolic DNA from bacteria and viruses and promotes the production of type I interferon (IFN-alpha and IFN-beta) (PubMed:[18724357](http://www.uniprot.org/citations/18724357), PubMed:[18818105](http://www.uniprot.org/citations/18818105), PubMed:[19433799](http://www.uniprot.org/citations/19433799), PubMed:[19776740](http://www.uniprot.org/citations/19776740), PubMed:[23027953](http://www.uniprot.org/citations/23027953), PubMed:[23910378](http://www.uniprot.org/citations/23910378), PubMed:[23747010](http://www.uniprot.org/citations/23747010), PubMed:[30842659](http://www.uniprot.org/citations/30842659)). Innate immune response is triggered in response to non-CpG double-stranded DNA from viruses and bacteria delivered to the cytoplasm (PubMed:[26300263](http://www.uniprot.org/citations/26300263)). Acts by binding cyclic dinucleotides: recognizes and binds cyclic di-GMP (c-di-GMP), a second messenger produced by bacteria, and cyclic GMP-AMP (cGAMP), a messenger produced by CGAS in response to DNA virus in the cytosol (PubMed:[21947006](http://www.uniprot.org/citations/21947006), PubMed:[23258412](http://www.uniprot.org/citations/23258412), PubMed:[23707065](http://www.uniprot.org/citations/23707065), PubMed:[23722158](http://www.uniprot.org/citations/23722158), PubMed:[26229117](http://www.uniprot.org/citations/26229117), PubMed:[23910378](http://www.uniprot.org/citations/23910378), PubMed:[23747010](http://www.uniprot.org/citations/23747010), PubMed:[30842659](http://www.uniprot.org/citations/30842659)). Upon binding of c-di-GMP or cGAMP, STING1 oligomerizes, translocates from the endoplasmic reticulum and is phosphorylated by TBK1 on the pLxIS motif, leading to recruitment and subsequent activation of the transcription factor IRF3 to induce expression of type I interferon and exert a potent anti-viral state (PubMed:[22394562](http://www.uniprot.org/citations/22394562), PubMed:[25636800](http://www.uniprot.org/citations/25636800), PubMed:[30842653](http://www.uniprot.org/citations/30842653)). In addition to promote the production of type I interferons, plays a direct role in autophagy (PubMed:[30568238](http://www.uniprot.org/citations/30568238), PubMed:[30842662](http://www.uniprot.org/citations/30842662)). Following cGAMP-binding, STING1 buds from the endoplasmic reticulum into COPII vesicles, which then form the endoplasmic reticulum-Golgi intermediate compartment (ERGIC) (PubMed:[30842662](http://www.uniprot.org/citations/30842662)).

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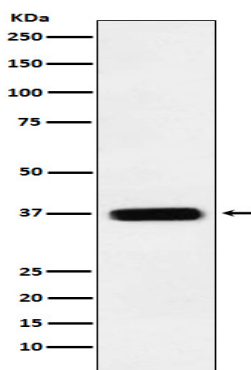


The ERGIC serves as the membrane source for WIPI2 recruitment and LC3 lipidation, leading to formation of autophagosomes that target cytosolic DNA or DNA viruses for degradation by the lysosome (PubMed:30842662). The autophagy- and interferon-inducing activities can be uncoupled and autophagy induction is independent of TBK1 phosphorylation (PubMed:30568238, PubMed:30842662). Autophagy is also triggered upon infection by bacteria: following c-di- GMP-binding, which is produced by live Gram-positive bacteria, promotes reticulophagy (By similarity). Exhibits 2',3' phosphodiester linkage- specific ligand recognition: can bind both 2'-3' linked cGAMP (2'-3'- cGAMP) and 3'-3' linked cGAMP but is preferentially activated by 2'-3' linked cGAMP (PubMed:26300263, PubMed:23910378, PubMed:23747010). The preference for 2'-3'-cGAMP, compared to other linkage isomers is probably due to the ligand itself, whichs adopts an organized free- ligand conformation that resembles the STING1-bound conformation and pays low energy costs in changing into the active conformation (PubMed:26150511). May be involved in translocon function, the translocon possibly being able to influence the induction of type I interferons (PubMed:18724357). May be involved in transduction of apoptotic signals via its association with the major histocompatibility complex class II (MHC-II) (By similarity).

研究领域 (Research Area)

Immunology

图片 (Image Data)



Western blot analysis of TMEM173 expression in HeLa cell lysate.

注意事项 (Note)

For research use only .

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