Rabbit STING / TMEM173 Polyclonal Antibody | anti-STING / TMEM173 antibody

STING / TMEM173 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75781	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunoprecipitation, ELISA**

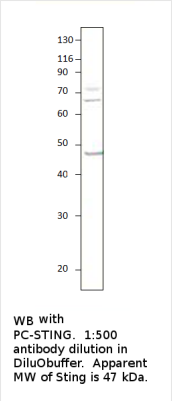
PRODUCT SYNONYMS

STING / TMEM173; Polyclonal Antibody; STING / TMEM173 Antibody; endoplasmic reticulum IFN stimulator; ERIS; FLJ38577; Mediator of IRF3 activation; MITA; Mitochondrial mediator of IRF3 activation; MPYS; N terminal methionine proline tyrosine serine plasma membrane tetraspanner; NET23; Stimulator of interferon genes; STING; Tmem173; Transmembrane protein 173 antibody; anti-STING / TMEM173 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Sequence Length	379
Applicable Applications for anti-STING / TMEM173 antibody	WB (Western Blot), IP (Immunoprecipitation), ELISA
Immunogen	Synthetic peptide corresponding to amino acid region 332-342. The selected peptide was post-synthetically modified to achieve highest antigenicity before coupling to a carrier protein using hetero bifunctional cross linker.
Immunoglobulin & Concentration	0.75 mg/mL in antibody stabilization buffer
Preparation and Storage	Store at -20°C for long term storage.

IMAGES



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-STING / TMEM173 antibody	Affinity Purifeid Stimulator of interferon genes protein isoform 1 Antibody Viral infections stimulate transcription factor including NK-Kb, IRF3 which stimulate the secretion of type I interferon and innate antiviral response. Stimulator of interferon gene protein (STING) is a critical adapter protein that links virus sensing receptor to transcription factor IRF3 activation in response to both RNA and DNA pathogens. The mechanism through wihich interferons are induced by cytosolic DNA involces cyclic GMP-AMP synthase which binds and activates the endoplasmic reticulum adapter protein STING that activates the transcription activity of interferon synthesis . STING recruits and activates the cytosolic kinase IKK and TBK1, which activates the transcription factor NF-kB and transcription factor IRF3. The NF-kB and IRF3 enters the nucleus and in concert induce interferons and other cytokines (1) .The DNA- dependent RNA Polymerease III also acts as a sensor and synthesizes AT-rich DNA such as poly (dA: dT) into mRNA ligand that stimulates RIG-1 Pathway to induce interferons (1,2). The ubiquination of STING by E3 ubiquitin ligase tripartite motif protein 32 (TRIM32) ubiquinated STING and dramatically enhanced STINGmediated induction of IFN-b (3). DNA can be introduced by viral or bacterial infection, leakage from nucleous or not activate DNA-dependent RNA polymerase and downstream RIG1 pathways, but instead activate STING pathway via cGas and cGAMP stimulation for interferon inductions. STING functions both as an adaptor protein signaling cytoplasmic dsDNA and diret immuno sensor of cGAMP (4) . In presence of Cgamp, the two surface loops of STING serves as gate an latch of the cleft formed by the dimeric STING (CTD), undergo rearrangement to interact with ligand. Dengue virus (DENV) inhibits type I interferon production to efficiently infects humans. This inhibition in INF production was effectively carried out by DENV protease NS2B3 on STING (5) Mouse STING is resistant to NS2B3 protease of DENV, thus it severely restrict the replication of DENCV in mice (5) STING-selective antibodies were generated against peptides taken from the human STING protein sequence. The STING-selective antibodies were affinity purified on inmobilized antigen based affinity matrices. The isolated antibodies were the stabilized in antibody stabilization buffer for long- term storage. This antibody also labels two bands of 67 and 74 kDa. The identies of these bands are unknown, but may represent splice variants of this protein.
Product Categories/Family for anti-STING / TMEM173 antibody	Primary Antibodies; Immunology; Innate Immunity; STING/TMEM173 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	38093659
NCBI GeneID	340061
NCBI Accession #	NP_938023
NCBI GenBank Nucleotide #	NM_198282.3
NCBI Official Full Name	stimulator of interferon genes protein isoform 1
NCBI Official Synonym Full Names	transmembrane protein 173
NCBI Official Symbol	TMEM173
NCBI Official Synonym Symbols	ERIS; MITA; MPYS; SAVI; NET23; STING; hMITA; hSTING
NCBI Protein Information	stimulator of interferon genes protein
UniProt Protein Name	Stimulator of interferon genes protein
UniProt Gene Name	**TMEM173**
UniProt Synonym Gene Names	ERIS; MITA; STING; hSTING; ERIS; hMITA
UniProt Entry Name	STING_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/sting-tmem173-antibody-western-blot-immunoprecipitation-elisa/75781