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STING1 Recombinant Rabbit mAb

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Catalog # AP94378

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Immunogen	A synthesized peptide derived from human STING
Epitope Specificity	250-379/379
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane. Mitochondrion outer membrane. Cell membrane. Cytoplasm > perinuclear region. In response to double-stranded DNA stimulation, relocalizes to perinuclear region, where the kinase TBK1 is recruited.
SIMILARITY	Belongs to the TMEM173 family.
SUBUNIT	Associates with the MHC-II complex (By similarity). Homodimer; 'Lys-63'-linked ubiquitination at Lys-150 is required for homodimerization. Interacts with DDX58/RIG-I, MAVS and SSR2. Interacts with RNF5 and TRIM56. Interacts with TBK1; when homodimer, leading to subsequent production of IFN-beta. Interacts with IFIT1 and IFIT2.
Post-translational modifications	Phosphorylated on tyrosine residues upon MHC-II aggregation (By similarity). Phosphorylated on Ser-358 by TBK1, leading to activation and production of IFN-beta. Ubiquitinated. 'Lys-63'-linked ubiquitination mediated by TRIM56 at Lys-150 promotes homodimerization and recruitment of the antiviral kinase TBK1 and subsequent production of IFN-beta. 'Lys-48'-linked polyubiquitination at Lys-150 occurring after viral infection is mediated by RNF5 and leads to proteasomal degradation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Target/Specificity	Ubiquitously expressed.

Dilution	WB=1:500-1:1000,IHC-P=1:100-1:500,IHC-F=1:100-500,ICC/IF=1:20-50,IF=0
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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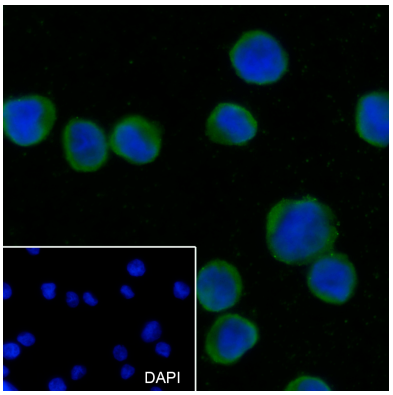
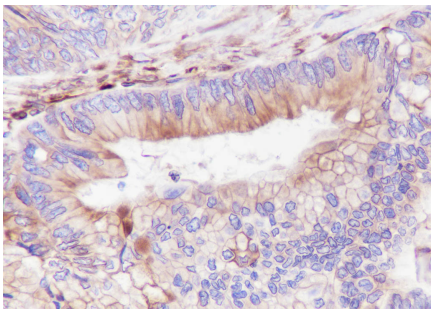
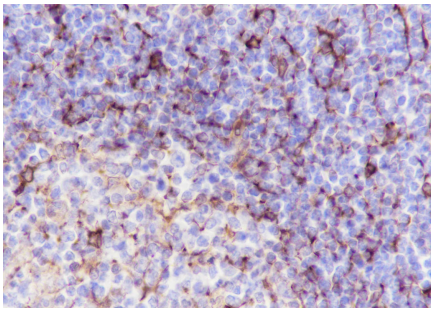
Images



Cell line: THP-1 Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary ab dilution: 1:50 Primary incubation condition: 1 hour at room temperature Nuclear counter stain: DAPI (Blue) Comment: Color green is the positive signal for AP94378

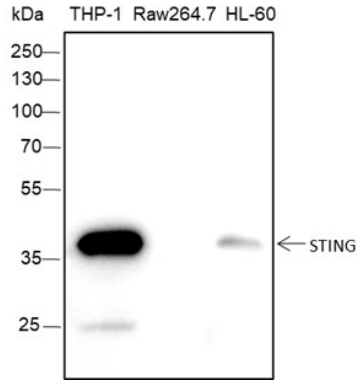


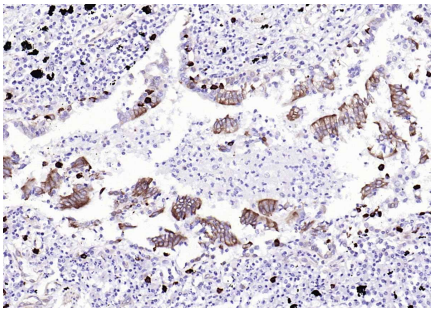
Tissue: Human colon cancer Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution:1:1000 Primary incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94378



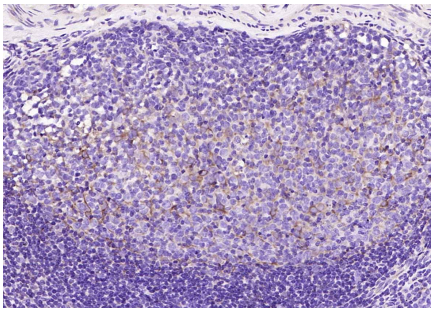
Tissue: Human tonsil Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary ab dilution: 1:1000 Primary ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94378

Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: 2 hours at room temperature Lysate: THP-1, Raw264.7, HL-60 Protein loading quantity: 20 µg Exposure time: 30 s Predicted MW: 42 kDa Observed MW: 36 kDa





Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STING1) Monoclonal Antibody, Unconjugated (AP94378) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023)instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STING1) Monoclonal Antibody, Unconjugated (AP94378) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023)instructionsand DAB staining.