



Anti-STING antibody - C-terminal ab189430

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Overview

Product name	Anti-STING antibody - C-terminal
Description	Rabbit polyclonal to STING - C-terminal
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Human
Immunogen	<p>Synthetic peptide within Human TMEM173 aa 300 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.</p> <p>Database link: Q86WW6</p> <div>  Run BLAST with  Run BLAST with </div>
Positive control	IHC-P: Human tonsil tissue. WB: Mouse spleen tissue lysate. Flow Cyt (Intra): HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.4</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituent: 99% PBS</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab189430 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 42 kDa.
IHC-P		Use a concentration of 5 µg/ml.
Flow Cyt (Intra)		1/10 - 1/50. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function

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. Able to activate both NF-kappa-B and IRF3 transcription pathways to induce expression of type I interferon and exert a potent anti-viral state following expression. May be involved in translocon function, the translocon possibly being able to influence the induction of type I interferons. May be involved in transduction of apoptotic signals via its association with the major histocompatibility complex class II (MHC-II). Mediates death signaling via activation of the extracellular signal-regulated kinase (ERK) pathway.

Tissue specificity

Ubiquitously expressed.

Sequence similarities

Belongs to the TMEM173 family.

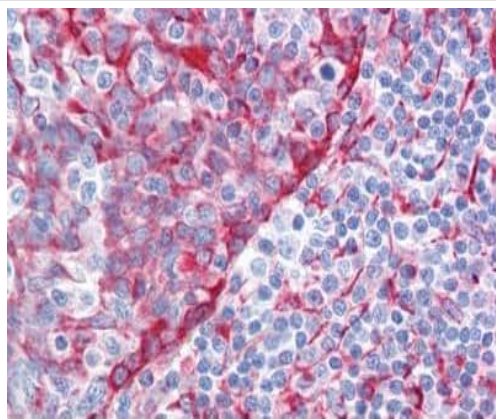
Post-translational modifications

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.

Cellular localization

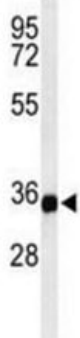
Endoplasmic reticulum membrane. Mitochondrion outer membrane. Cell membrane. Cytoplasm > perinuclear region. In response to double-stranded DNA stimulation, relocalizes to perinuclear region, where the kinase TBK1 is recruited.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody - C-terminal (ab189430)

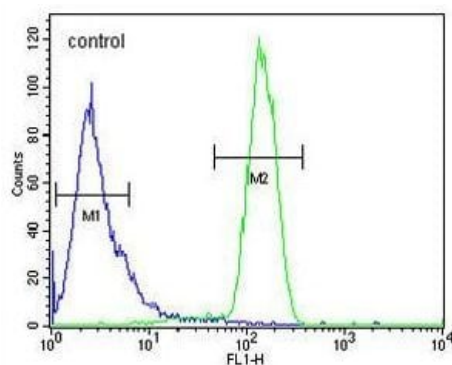
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human tonsil tissue labeling TMEM173 with ab189430 at 5 µg/ml.



Western blot - Anti-STING antibody - C-terminal (ab189430)

Anti-STING antibody - C-terminal (ab189430) at 1/1000 dilution + Mouse spleen tissue lysate at 35 µg

Predicted band size: 42 kDa



Flow Cytometry (Intracellular) - Anti-STING antibody - C-terminal (ab189430)

Intracellular flow cytometric analysis of HeLa cells labeling TMEM173 with ab189430 at 1/10 dilution (right histogram) compared to negative control cells (left histogram) using FITC-conjugated goat-anti-rabbit secondary antibodies.

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