


Anti-STING antibody [SP339] ab227705

敲除验证
重组
RabMAb

18 图像

概述

产品名称	Anti-STING抗体[SP339]
描述	兔单克隆抗体[SP339] to STING
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), IHC-P, WB
种属反应性	与反应: Human 预测可用于: Cow, Pig 
免疫原	Synthetic peptide within Human TMEM173 aa 150-350 (C terminal). The exact sequence is proprietary. Database link: Q86WV6
阳性对照	WB: THP-1 and Wild-type THP-1 cell lysate. IHC-P: Human tonsil, colon, colon carcinoma, thymus, lymph node, lung, HK lymphoma, lung adenocarcinoma, pancreatic adenocarcinoma, lung squamous cell carcinoma and skin squamous cell carcinoma tissues. Flow Cyt (Intra): THP-1 cells.
常规说明	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
纯度	Protein A/G purified
纯化说明	Purified from TCS by protein A/G.
克隆	单克隆
克隆编号	SP339
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab227705于以下的经测试应用

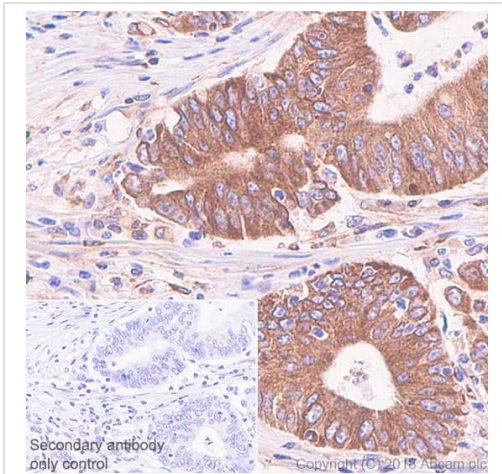
“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/20 - 1/400. Primary incubation for 30 minutes at 4°C.
IHC-P		1/100. Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Primary incubation for 10 minutes at room temperature.
WB		1/400. Predicted molecular weight: 42 kDa. Primary incubation for 1 hour at room temperature.

靶标

功能	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.
组织特异性	Ubiquitously expressed.
序列相似性	Belongs to the TMEM173 family.
翻译后修饰	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.
细胞定位	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.

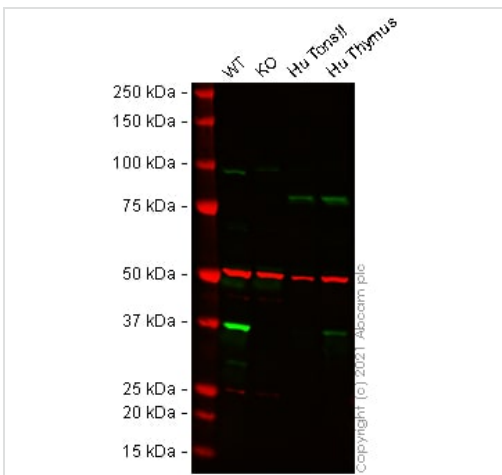
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling TMEM173 with ab227705 at 1/100 dilution (2.5 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human colon carcinoma, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab227705 for 10 mins at room temperature.



Western blot - Anti-STING antibody [SP339] (ab227705)

All lanes : Anti-STING antibody [SP339] (ab227705) at 1/400 dilution

Lane 1 : Wild-type THP-1 cell lysate

Lane 2 : TMEM173 knockout THP-1 cell lysate

Lane 3 : Human Tonsil tissue lysate

Lane 4 : Human Thymus tissue lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

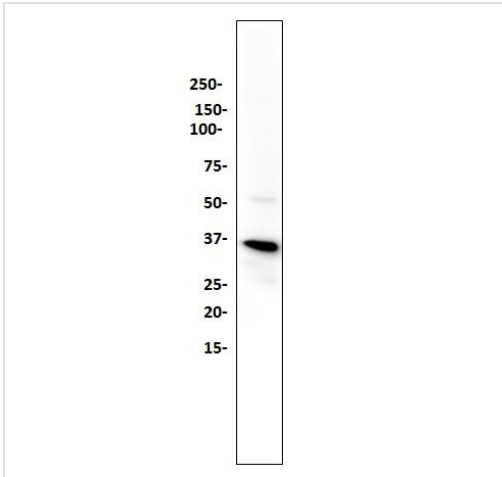
Predicted band size: 42 kDa

Observed band size: 37 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab227705 observed at 37 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab227705 was shown to react with TMEM173 in wild-type THP-1 cells in Western blot with loss of signal observed in TMEM173 knockout cell line **ab270493** (TMEM173 knockout cell lysate **ab270516**). Wild-type THP-1 and TMEM173 knockout cell lysates

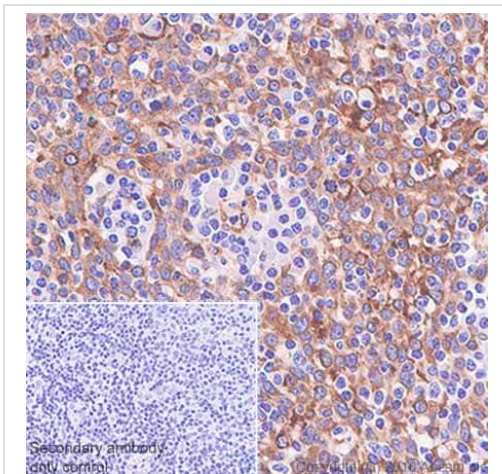
were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab227705 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 400 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-STING antibody [SP339]
(ab227705)

Anti-STING antibody [SP339] (ab227705) at 1/400 dilution + THP-1
(human monocytic leukemia cell line) cell lysate

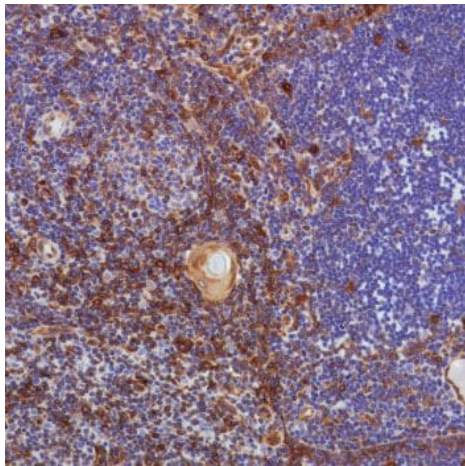
Predicted band size: 42 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-STING antibody [SP339]
(ab227705)

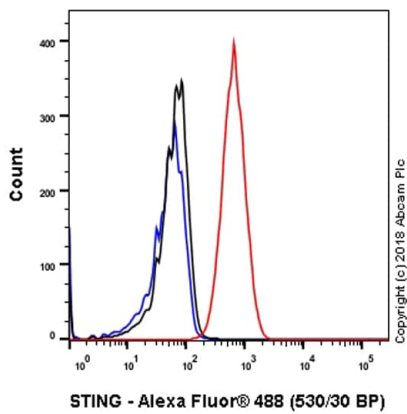
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling TMEM173 with ab227705 at 1/100 dilution (2.5 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human tonsil, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab227705 for 10 mins at room temperature.



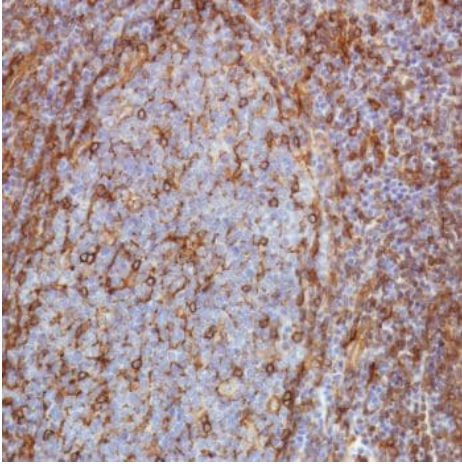
Formalin-fixed, paraffin-embedded human thymus tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



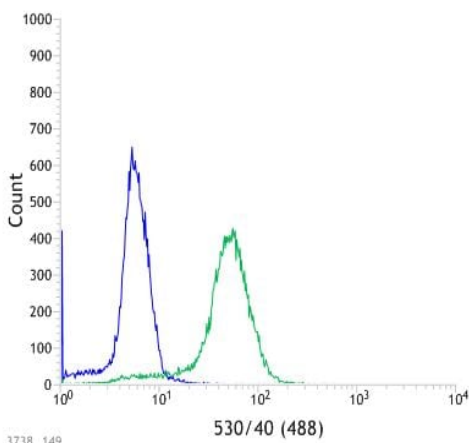
Flow cytometry analysis of THP-1 (human acute monocytic leukemia) labeling TMEM173 with purified ab227705 at 1/20 dilution (12.5 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (Black). Unlabeled control - Unlabelled cells (blue).

Flow Cytometry (Intracellular) - Anti-STING antibody [SP339] (ab227705)



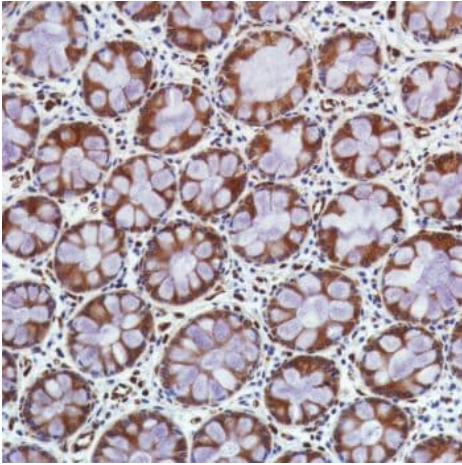
Formalin-fixed, paraffin-embedded human tonsil tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



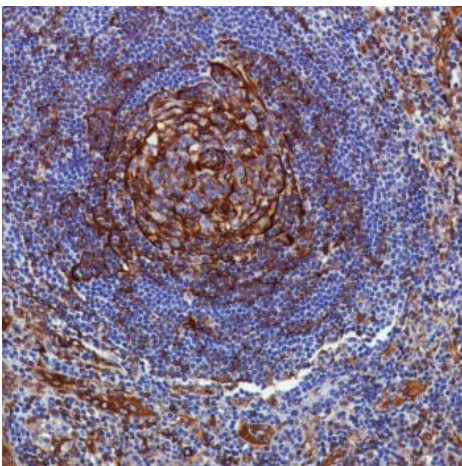
Flow cytometric analysis of THP-1 (human monocytic leukemia cell line) cell line labeling TMEM173 with ab227705 at 1/400 dilution (green) compared with a Rabbit IgG negative control (blue).

Flow Cytometry (Intracellular) - Anti-STING antibody [SP339] (ab227705)



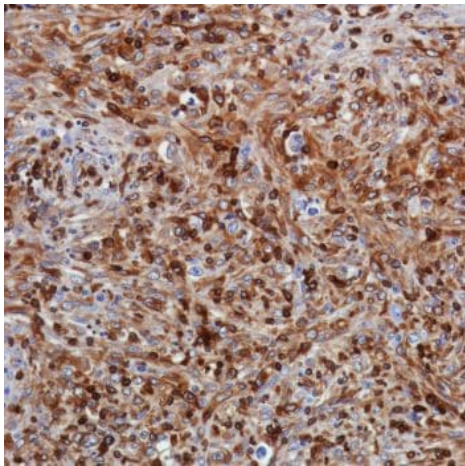
Formalin-fixed, paraffin-embedded human colon tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



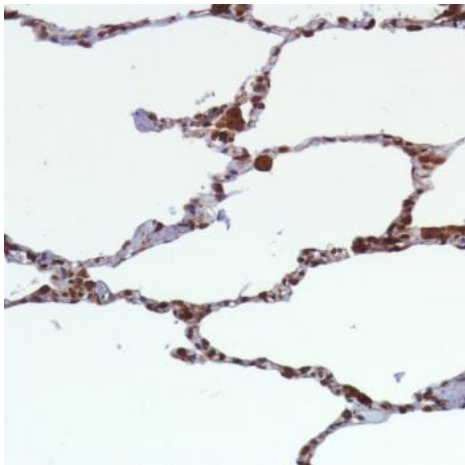
Formalin-fixed, paraffin-embedded human lymph node tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



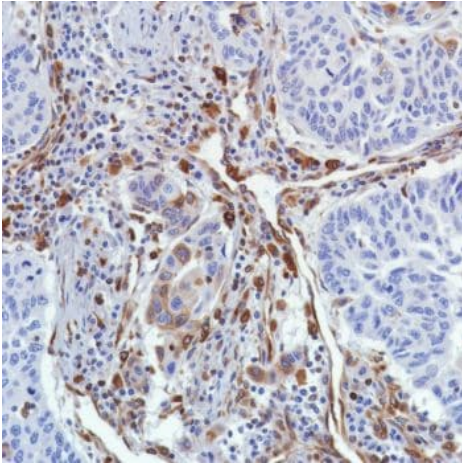
Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



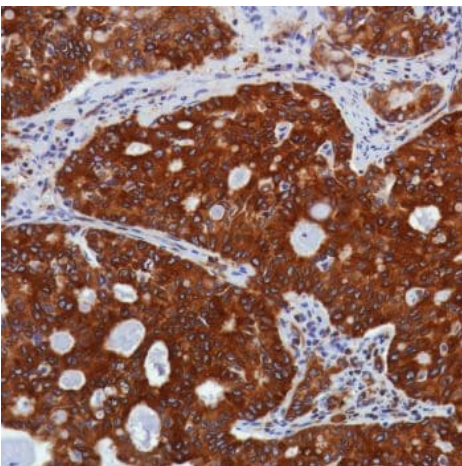
Formalin-fixed, paraffin-embedded human lung tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



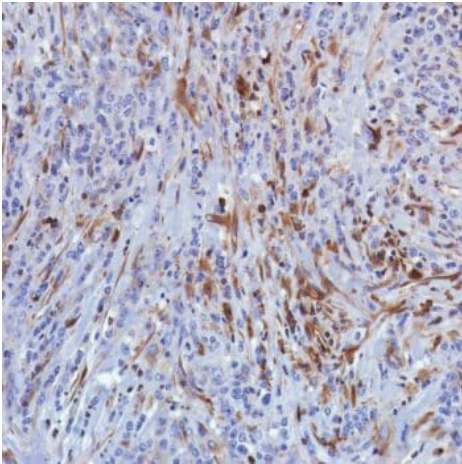
Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



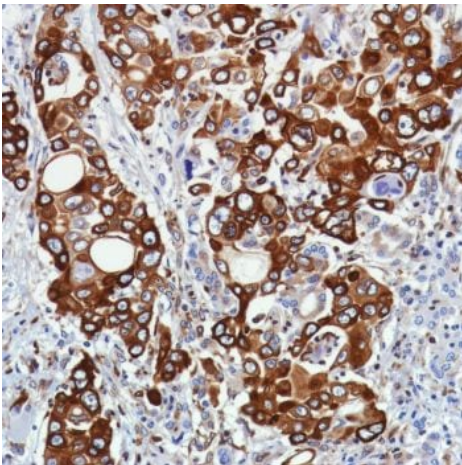
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



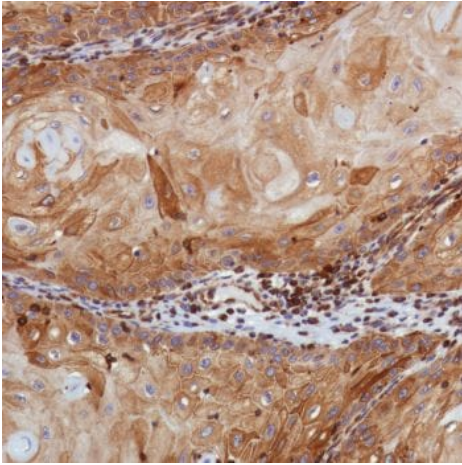
Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)



Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STING antibody [SP339] (ab227705)

Why choose a recombinant antibody?



Anti-STING antibody [SP339] (ab227705)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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