


Anti-STING antibody [SP339] ab227705

KO 評価済 リコンビナント RabMAb

画像数 18

製品の概要

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|--------------|--|
| 製品名 | Anti-STING antibody [SP339] |
| 製品の詳細 | Rabbit monoclonal [SP339] to STING |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: Flow Cyt (Intra), IHC-P, WB |
| 種交差性 | 交差種: Human 交差が予測される動物種: Cow, Pig  |
| 免疫原 | Synthetic peptide within Human TMEM173 aa 150-350 (C terminal). The exact sequence is proprietary. Database link: Q86WV6 |
| ポジティブ・コントロール | 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. |
| 特記事項 | This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com. |

製品の特性

| | |
|----------|---|
| 製品の状態 | Liquid |
| 保存方法 | 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. |
| バッファー | pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA |
| 精製度 | Protein A/G purified |
| 特記事項(精製) | Purified from TCS by protein A/G. |
| ポリ/モノ | モノクローナル |
| クローン名 | SP339 |
| アイソタイプ | IgG |

アプリケーション

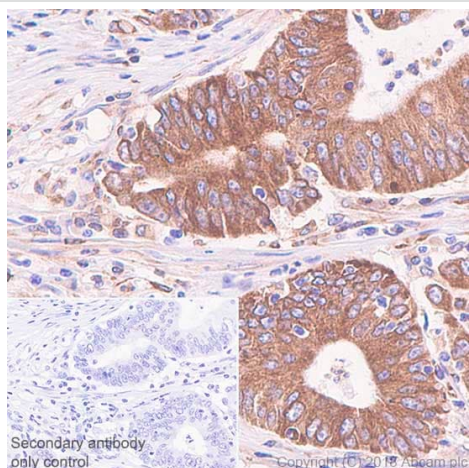
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab227705の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

| アプリケーション | Abreviews | 特記事項 |
|------------------|-----------|---|
| 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. |

ターゲット情報

| | |
|-------|---|
| 機能 | 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. |
| 組織特異性 | Ubiquitously expressed. |
| 配列類似性 | Belongs to the TMEM173 family. |
| 翻訳後修飾 | 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. |
| 細胞内局在 | 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. |

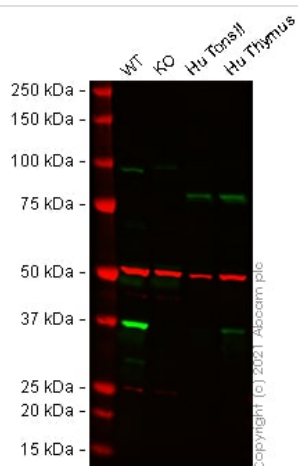
画像



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.

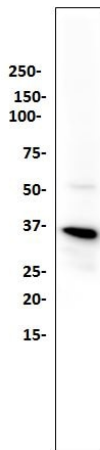
Predicted band size: 42 kDa

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

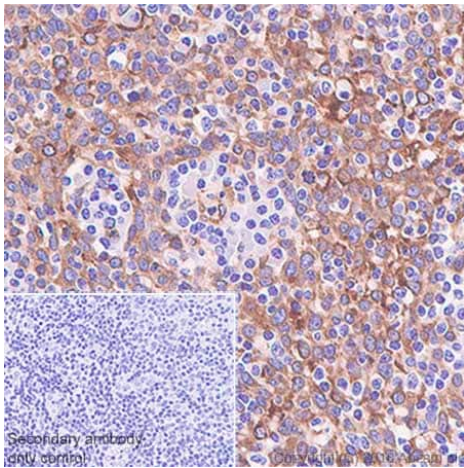
were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab227705 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 400 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat 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

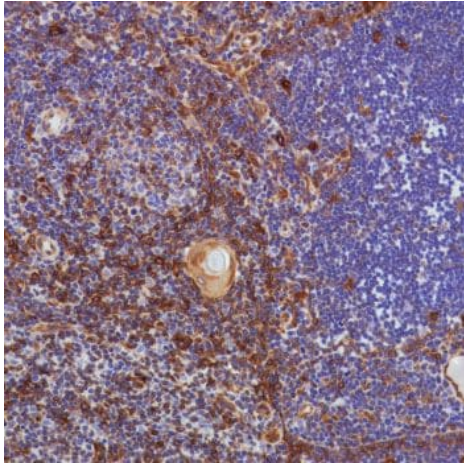
Predicted band size: 42 kDa



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

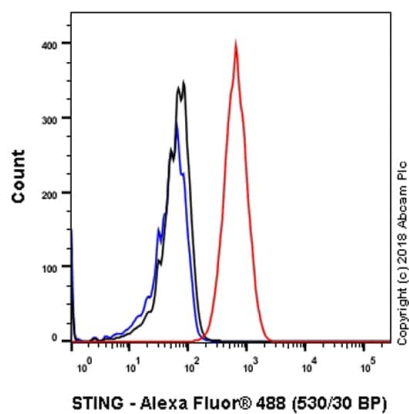
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling TMEM173 with ab227705 at 1/100 dilution (2.5 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer 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.



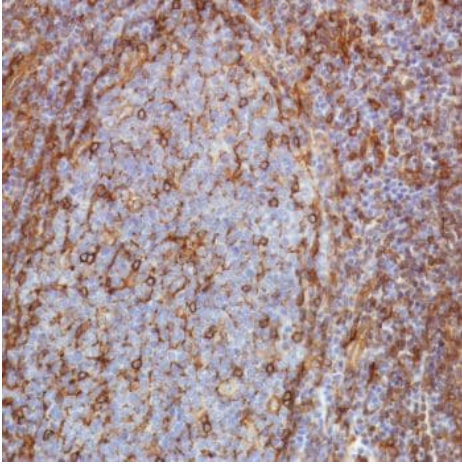
Formalin-fixed, paraffin-embedded human thymus tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



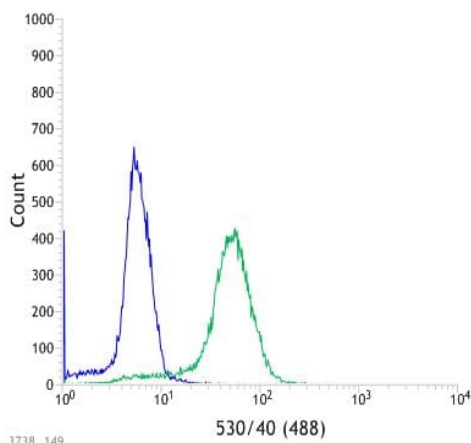
Flow cytometry analysis of THP-1 (human acute monocytic leukemia) labeling TMEM173 with purified ab227705 at 1/20 dilution (12.5 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used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

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



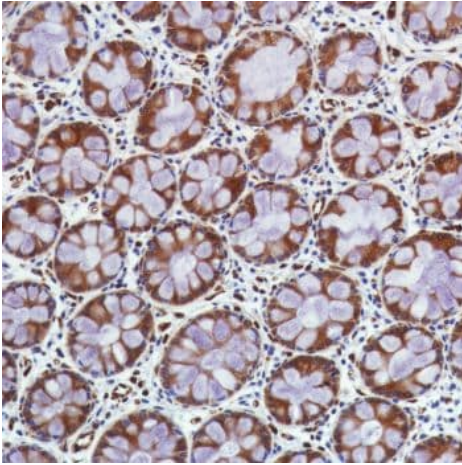
Formalin-fixed, paraffin-embedded human tonsil tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



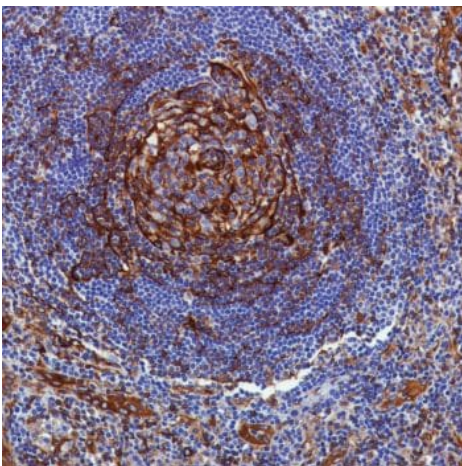
Flow cytometric analysis of THP-1 (human monocytic leukemia cell line) cell line labeling TMEM173 with ab227705 at 1/400 dilution (green) compared with a Rabbit IgG negative control (blue).

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



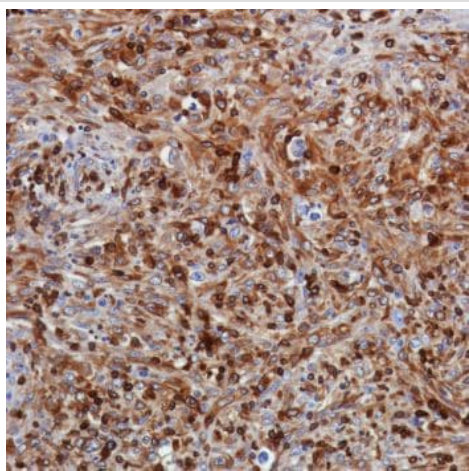
Formalin-fixed, paraffin-embedded human colon tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



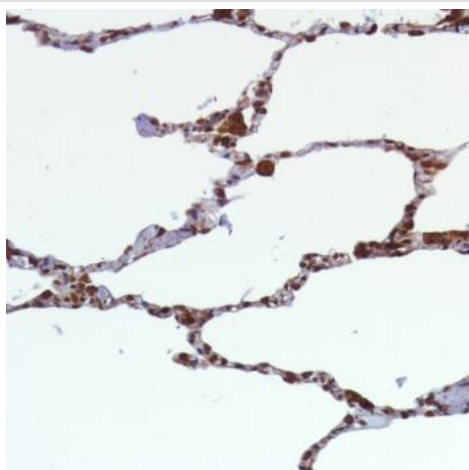
Formalin-fixed, paraffin-embedded human lymph node tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



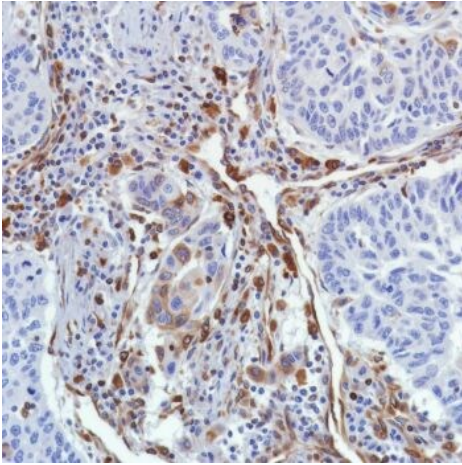
Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



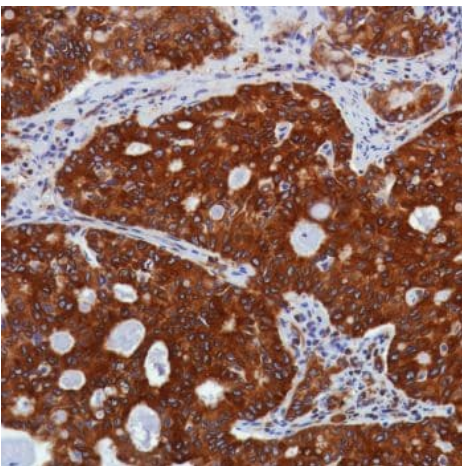
Formalin-fixed, paraffin-embedded human lung tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



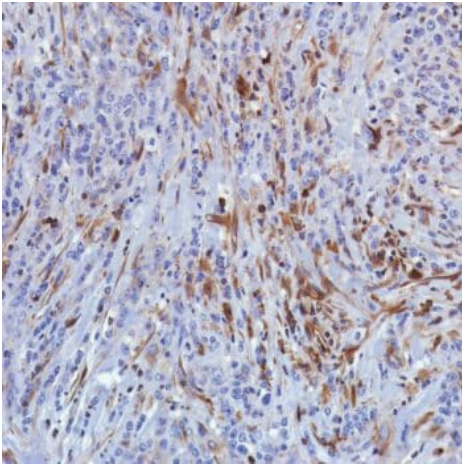
Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



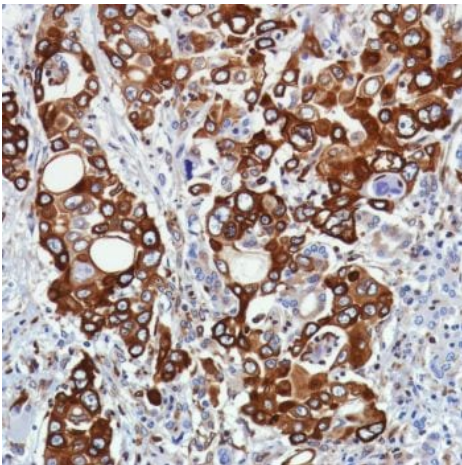
Formalin-fixed, paraffin-embedded human lung adenocarcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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



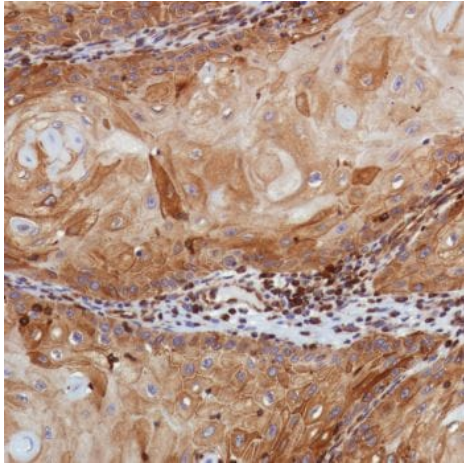
Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for TMEM173 using ab227705 at 1/100 dilution in immunohistochemical analysis.

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?



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Recombinant technology



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Confirmed specificity



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Anti-STING antibody [SP339] (ab227705)

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

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