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Datasheet for ABIN3043423

## anti-STING/TMEM173 antibody (C-Term)

1 Validation

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### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µg   |
| Target:              | STING/TMEM173 (TMEM173)  |
| Binding Specificity: | AA 284-316, C-Term   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This STING/TMEM173 antibody is un-conjugated                                       |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|                             |   |
|-----------------------------|---|
| Purpose:                    | Rabbit IgG polyclonal antibody for Stimulator of interferon genes protein (TMEM173) detection.<br>Tested with WB, IHC-P in Human.   |
| Immunogen:                  | A synthetic peptide corresponding to a sequence at the C-terminus of human TMEM173 (284-316aa RLEQAKLFCRTLEDILADAPESQNNCRLLIAYQE), different from the related mouse sequence by five amino acids. |
| Sequence:                   | RLEQAKLFCR TLEDILADAP ESQNNCRLLIAYQE  |
| Isotype:                    | IgG   |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.  |
| Characteristics:            | Rabbit IgG polyclonal antibody for Stimulator of interferon genes protein (TMEM173) detection.<br>Tested with WB, IHC-P in Human.<br>Gene Name: transmembrane protein 173                         |

## Product Details

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Protein Name: Stimulator of interferon genes protein

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Purification: Immunogen affinity purified.

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## Target Details

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Target: STING/TMEM173 (TMEM173)

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Alternative Name: TMEM173 ([TMEM173 Products](#))

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Background: Transmembrane protein 173 is a protein that in humans is encoded by the TMEM173 gene. 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. Also the encoded protein has 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.

Synonyms: endoplasmic reticulum IFN stimulator antibody|Endoplasmic reticulum interferon stimulator antibody|ERIS antibody|FLJ38577 antibody|hMITA antibody|hSTING antibody|Mediator of IRF3 activation antibody|MITA antibody|Mitochondrial mediator of IRF3 activation antibody|MPYS antibody|N terminal methionine proline tyrosine serine plasma membrane tetraspanner antibody|NET23 antibody|Stimulator of interferon genes antibody|Stimulator of interferon genes protein antibody|STING antibody|TM173\_HUMAN antibody|Tmem173 antibody|Transmembrane protein 173 antibody

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Gene ID: 340061

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Pathways: [Activation of Innate immune Response](#)

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## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

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## Application Details

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ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

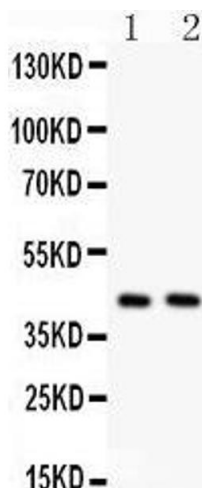
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

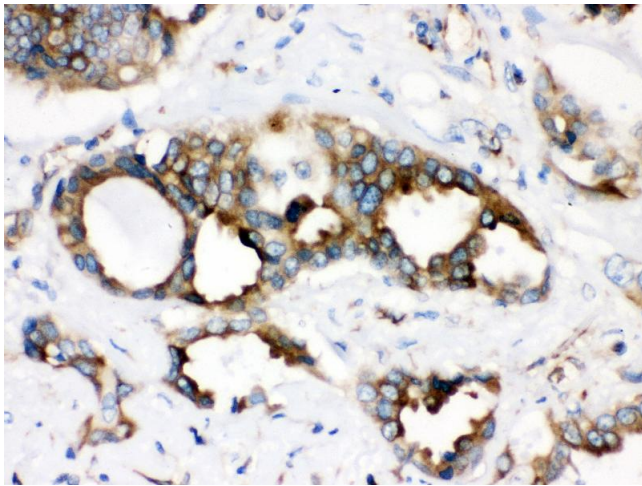
## Validation report #300030 for Immunohistochemistry (IHC)

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### Western Blotting

**Image 1.** Observed bind size: 42KD



### Immunohistochemistry

**Image 2.** Anti- TMEM173 Picoband antibody, IHC(P) IHC(P):  
Human Lung Cancer Tissue



**Successfully validated (Immunohistochemistry (IHC))**

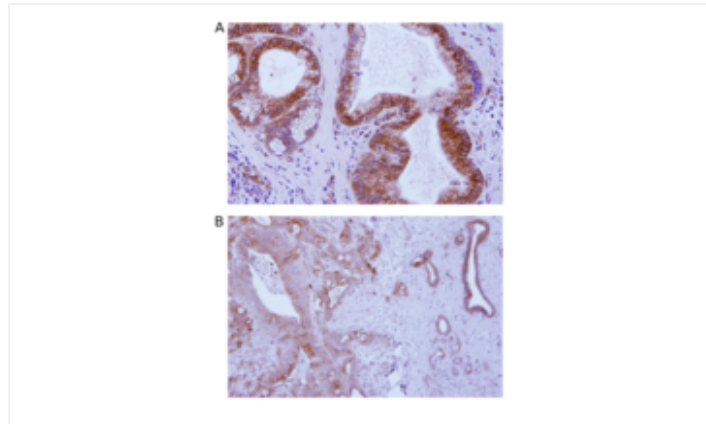
by [University of California, Los Angeles](#)

Report Number: 100035

Date: Jul 02 2016

|                     |   |
|---------------------|---|
| Target:             | Anti-TMEM173 Picoband™ Antibody   |
| Lot Number:         | 0951512Da071365   |
| Method validated:   | Immunohistochemistry (IHC)  |
| Positive Control:   | Human pancreatic adenocarcinoma (PDAC)  |
| Notes:              | In primary human pancreatic tumor tissue, ABIN3043423 stains specifically the tumor cell cytoplasm only, not fibroblasts.   |
| Primary Antibody:   | ABIN3043423   |
| Secondary Antibody: | Biotin-SP-AffinPure Donkey-anti-rabbit IgG (H+L), Jackson ImmunoResearch, cat#711-065-152   |
| Protocol:           | <ul style="list-style-type: none"><li>• Deparaffinize slides<ul style="list-style-type: none"><li>◦ Bake slides in oven at 60°C for 1h and let cool completely to RT.</li><li>◦ Rehydrate:<ul style="list-style-type: none"><li>◦ Xylene 3x 5min</li><li>◦ 100% EtOH 2x 2min</li><li>◦ 95% EtOH 3x 2min</li><li>◦ 70% EtOH 1x 2min</li><li>◦ 50% EtOH 1x 2min</li><li>◦ H2O 2x 3min</li></ul></li></ul></li><li>• Blocking peroxidase activity<ul style="list-style-type: none"><li>◦ Treat in 3% H2O2-PBS for 15min on rotator at RT (240 ml/slide hold chamber).</li><li>◦ Wash with PBS 3x 2min.</li></ul></li><li>• Antigen retrieval<ul style="list-style-type: none"><li>◦ Citrate buffer stock solution 100x, pH6.0 working solution 0.01M, freshly diluted into working solution.</li><li>◦ Boil Citrate buffer until 100°C on hot plate, put slides in the boiled buffer, keep boiling 15min, then let them cool down on bench top for 20min.</li><li>◦ Wash with H2O 2x 2min.</li><li>◦ Wash with PBS 3x 5min.</li><li>◦ PAP-pen cycles the slides: using vacuum to suck off the solution by cycling around the tissue area, then using the PAP-pen draw along the cycle line. Make sure the tissue area is kept wet.</li></ul></li></ul> |

- Apply blocking solution
  - Incubate with 50-100µl (cover the whole tissue area) 5% donkey serum in PBS for 1h in moist a box at RT.
  - Blocking stock solution: 5% donkey serum in 10 ml PBS.
  - Drain blocking solution and blot excess liquid with Kim wipe.
  - Prepare primary antibody solution in blocking buffer.
- Apply primary antibody
  - Dilute primary TMEM173 antibody ABIN3043423 1:500 dilution in 5% normal goat serum in PBS.
  - Incubate overnight in a box at 4°C to assure amoist environment and prevent slides from drying.
- Wash with 0.05% Tween-PBS3x 5min.
- Dilute Biotin-SP-AffinPure Donkey-anti-rabbit IgG (H+L) secondary antibody with 5% blocking solution (5% donkey serum)
- Incubate 1h with secondary antibody at room temperature.
- Prepare ABC solution 1:200: dilute both A and B in 0.05% Tween-PBS. Allow ABC diluted solution to sit for 30-60min before using, keep in the dark.
- Wash with 0.05% Tween-PBS 5min, 7min, and 7min.
- Apply 250µL/slide ABC solution; incubate for 30min at RT in moist incubation box.
- Wash with 0.05% Tween-PBS 5min, 7min, and 7min.
- Filter Hematoxylin.
- Prepare fresh DAB solution in disposable beaker (do not allow solution to sit):
  - 2.5ml H2O + 1 drop buffer + 2 drops DAB + 1 drop H2O2
  - Use transfer pipette to apply DAB x 1min
- Wash 3x with dH2O (10 dips each).
- Hematoxylin stain 5-10sec.
- Wash until water is clear.
- Hematoxylin stain 5-10sec.
- Dehydrate
  - 50% EtOH 1x 2min.
  - 70% EtOH 1x 2min.
  - 95% EtOH 2x 2min.
  - 100% EtOH 2x 2min.
  - Xylene 3x 5min.
- Apply cover-slip. Allow glue to dry overnight.



**Validation image no. 1 for anti-Transmembrane Protein 173 (TMEM173) (AA 284-316), (C-Term) antibody (ABIN3043423)**

Immunohistochemistry on pancreatic adenocarcinoma (PDAC) FFPE tissue sections. The primary TMEM173 antibody ABIN3043423 was used 1:500 diluted in 5% normal Goat serum in PBS with a biotin-donkey-anti-rabbit IgG (H+L) secondary antibody. A. IHC staining of PDAC tissue from patient #1 at 400x magnification. B. IHC staining of PDAC tissue from patient #2 at 200x magnification.