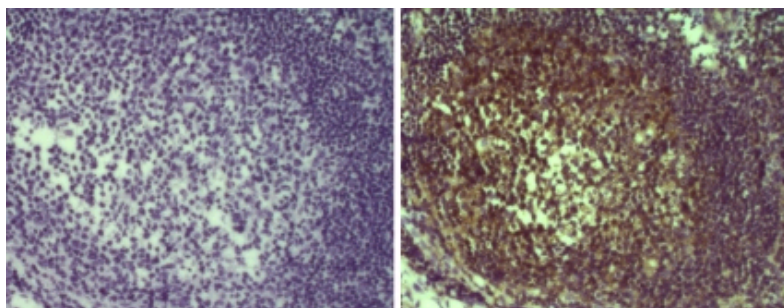


## Anti-Human MALT1 Purified

Catalog Number: 14-9961

Also Known As: MALT-1, mucosa associated lymphoid tissue lymphoma translocation gene

RUO: For Research Use Only



Immunohistochemistry on formalin-fixed paraffin embedded human tonsil tissue with citrate buffer antigen retrieval, using 10 µg/ml of Anti-Human MALT1 Purified (right) or Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) antibody (left) followed by Anti-Mouse Ig Biotin and DAB visualization. Nuclei are counterstained with hematoxylin.

### Product Information

Contents: Anti-Human MALT1 Purified


**REF** Catalog Number: 14-9961

Clone: 50


Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

### Description

The monoclonal antibody 50 recognizes human MALT1 (Mucosal Associated Lymphoid Tissue lymphoma translocation gene 1). MALT1 is a 91 kDa paracaspase that contains a death domain, two Ig-like domains and a C terminal caspase-like domain. Like other caspases, it cleaves substrates after an arginine residue. Expression is found in the cytoplasm of B and T cells. Within B cell follicles, MALT1 expression is highly expressed in centroblasts, followed by centrocytes and weakly expressed in the mantle zone. The interaction of MALT1 and Bcl10 occurs through Ig-like domains resulting in oligomerization and activation of the caspase-like domain. This also directly results in NFκB activation thereby playing a role in B cell maturation and activation.

Rearrangements of the MALT1 gene found in t(11;18)(q21;q21) and t(14;18)(q32;q21) are the most frequent structural chromosomal abnormalities in MALT lymphomas. These translocations lead to fusions of API2(BIRC3)-MALT1 and IGH-MALT1 respectively. An additional translocation between MALT1 and MAP4 has also been identified in DLBCL (diffuse large B- cell lymphoma).

The antibody 50 reacts with the C terminal domain of MALT1, which allows for the detection of endogenous MALT1 as well as both identified fusion proteins resulting from translocation events.

### Applications Reported

This 50 antibody has been reported for use in immunoblotting (WB) and immunohistochemical staining of formalin-fixed, paraffin embedded tissue sections.

### Applications Tested

This 50 antibody has been tested by immunohistochemistry on formalin-fixed paraffin-embedded (FFPE) human tonsil tissue. Antigen retrieval was performed using 10mM citrate buffer at pH 6.0. For immunohistochemistry, this antibody can be used at less than or equal to 10 µg/mL. This 50 antibody has been tested by western blotting under reducing conditions (at 5 µg/ml) on Jurkat cells. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Related Products

14-4714 Mouse IgG1 K Isotype Control Purified

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