

**MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone SPM578 ]**  
**Catalog # AH10401****Specification****MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Product Information**

Application	WB, IHC-P, IF, FC
Primary Accession	<a href="#">O9UDY8</a>
Other Accession	<a href="#">10892</a> , <a href="#">601217</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	93kDa kDa

**MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Additional Information****Gene ID** 10892**Other Names**

Mucosa-associated lymphoid tissue lymphoma translocation protein 1, 3.4.22.-, MALT lymphoma-associated translocation, Paracaspase, MALT1, MLT

**Application Note**

WB~~1:1000  
IHC-P~~N/A  
IF~~1:50~200  
FC~~1:10~50

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Protein Information****Name** MALT1 {ECO:0000303|PubMed:10523859, ECO:0000312|HGNC:HGNC:6819}**Function**

Protease that enhances BCL10-induced activation: acts via formation of CBM complexes that channel adaptive and innate immune signaling downstream of CARD domain-containing proteins (CARD9, CARD11 and CARD14) to activate NF-kappa-B and MAP kinase p38 pathways which

stimulate expression of genes encoding pro-inflammatory cytokines and chemokines (PubMed:<a href="http://www.uniprot.org/citations/11262391" target="\_blank">11262391</a>, PubMed:<a href="http://www.uniprot.org/citations/18264101" target="\_blank">18264101</a>, PubMed:<a href="http://www.uniprot.org/citations/24074955" target="\_blank">24074955</a>). Mediates BCL10 cleavage: MALT1-dependent BCL10 cleavage plays an important role in T-cell antigen receptor-induced integrin adhesion (PubMed:<a href="http://www.uniprot.org/citations/11262391" target="\_blank">11262391</a>, PubMed:<a href="http://www.uniprot.org/citations/18264101" target="\_blank">18264101</a>). Involved in the induction of T helper 17 cells (Th17) differentiation (PubMed:<a href="http://www.uniprot.org/citations/11262391" target="\_blank">11262391</a>, PubMed:<a href="http://www.uniprot.org/citations/18264101" target="\_blank">18264101</a>). Cleaves RC3H1 and ZC3H12A in response to T-cell receptor (TCR) stimulation which releases their cooperatively repressed targets to promote Th17 cell differentiation (By similarity). Also mediates cleavage of N4BP1 in T-cells following TCR-mediated activation, leading to N4BP1 inactivation (PubMed:<a href="http://www.uniprot.org/citations/31133753" target="\_blank">31133753</a>). May also have ubiquitin ligase activity: binds to TRAF6, inducing TRAF6 oligomerization and activation of its ligase activity (PubMed:<a href="http://www.uniprot.org/citations/14695475" target="\_blank">14695475</a>).

#### Cellular Location

Cytoplasm, perinuclear region. Nucleus Note=Shuttles between the nucleus and cytoplasm. Found in perinuclear structures together with BCL10.

#### Tissue Location

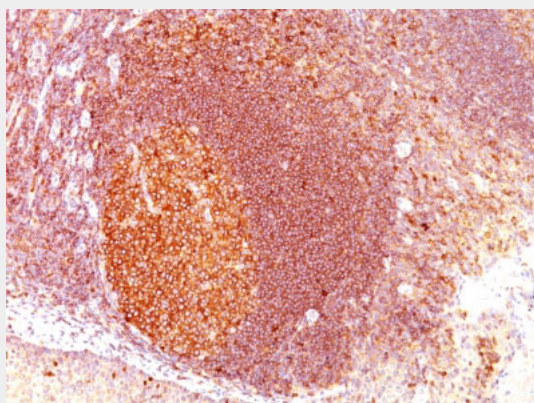
Highly expressed in peripheral blood mononuclear cells. Detected at lower levels in bone marrow, thymus and lymph node, and at very low levels in colon and lung

#### MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Tonsil stained with MALT1 Monoclonal Antibody (SPM578)

#### **MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - Background**

Mucosa associated lymphoid tissue lymphoma translocation gene 1 (MALT1) is found in extranodal low-grade B cell lymphomas. MALT1 encodes two Ig-like C2-type domains and fuses with an API2 gene, which is highly expressed in adult lymphoid tissue. The translocation of this MALT1 gene, which maps to human chromosome 18q21, and the apoptosis-inhibiting API2 gene results in an increased development of MALT lymphomas and apoptosis inhibition. Sites at which this API2-MALT1 (11;18)(q21;q21) translocation commonly occurs are within human lung and kidney tissue. MALT lymphoma expresses nuclear Bcl10, which mediates the oligomerization and activation of a MALT1 caspase-like domain. MALT1 mRNA is found in pre-B cells, mature B cells and plasma cells.

#### **MALT1 (MALT-Lymphoma Marker) Antibody - With BSA and Azide - References**

Ye H et. al. J Pathol 2005; 205: 293-301