

MALT1 Rabbit pAb

Catalog # AP99343

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9UDY8
Other Accession	Q9UDY8
Predicted	Rat, Human, Mouse, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92272
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MALT1
Epitope Specificity	631-730/824
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase C14B family. Contains 1 death domain. Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
SUBUNIT	Binds through its Ig-like domains to BCL10. Forms oligomers which bind to TRAF6.
DISEASE	Note=A chromosomal aberration involving MALT1 is recurrent in low-grade mucosa-associated lymphoid tissue (MALT lymphoma). Translocation t(11;18)(q21;q21) with BIRC2. This translocation is found in approximately 50% of cytogenetically abnormal low-grade MALT lymphoma.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene has been found to be recurrently rearranged in chromosomal translocation with two other genes - baculoviral IAP repeat-containing protein 3 (also known as apoptosis inhibitor 2) and immunoglobulin heavy chain locus - in mucosa-associated lymphoid tissue lymphomas. The protein encoded by this gene may play a role in NF-kappaB activation. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	10892
Other Names	IMD12; MLT; MLT1; PCASP1; A630046N12; D430033E09Rik; MALT1_HUMAN; MALT1; MALT lymphoma-associated translocation; Paracaspase; 3.4.22.-; MALT1_MOUSE; MALT1 paracaspase; mucosa associated lymphoid tissue lymphoma translocation gene 1; MALT1 protease; paracaspase 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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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: 11262391 , PubMed: 18264101 , PubMed: 24074955). Mediates BCL10 cleavage: MALT1-dependent BCL10 cleavage plays an important role in T-cell antigen receptor-induced integrin adhesion (PubMed: 11262391 , PubMed: 18264101). Involved in the induction of T helper 17 cells (Th17) differentiation (PubMed: 11262391 , PubMed: 18264101). 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: 31133753). May also have ubiquitin ligase activity: binds to TRAF6, inducing TRAF6 oligomerization and activation of its ligase activity (PubMed: 14695475).
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

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