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MALT1 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

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|-------------------------------|-----------------------------|-----------------------------------|------------------------|----------------------------------|-------------------------------|---------------------------------|
| Applications: W, IP | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 90 | Source/Isotype: Rabbit | UniProt ID: #Q9UDY8 | Entrez-Gene Id: 10892 |
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MALT1 Antibody detects endogenous levels of total MALT1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of mouse and rat MALT1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Mucosa-associated lymphoid tissue translocation gene 1 (*MALT1*) is a paracaspase that is a critical mediator of T-cell receptor activation of NF-κB and may contribute to the progression of MALT lymphomas (1-4). It contains two immunoglobulin-like domains, an amino-terminal death domain and a carboxy-terminal caspase-like domain. Association of MALT1 with Bcl-10 and CARD11/Carma1 leads to activation of IKK and subsequent stimulation of NF-κB, resulting in increased proliferation and inhibition of apoptosis (5,6). A common translocation in MALT B-cell non-Hodgkin lymphomas t(11;18)(q21;q21) results in the fusion of the amino terminus of API2 (c-IAP2), a member of the inhibitor of apoptosis protein family, to the carboxy terminus of MALT1 (1,2). The API2-MALT1 fusion protein likely leads to deregulation of NF-κB, contributing to increased oncogenic potential (7).

Background References

1. Akagi, T. et al. (1999) *Oncogene* 18, 5785-5794.
2. Uren, A.G. et al. (2000) *Mol. Cell* 6, 961-967.
3. Ruland, J. et al. (2003) *Immunity* 19, 749-758.
4. Nakagawa, M. et al. (2006) *Leukemia* 20, 929-936.
5. Che, T. et al. (2004) *J. Biol. Chem.* 279, 15870-15876.
6. Lucas, P.C. et al. (2001) *J. Biol. Chem.* 276, 19012-19019.
7. Ho, L. et al. (2005) *Blood* 105, 2891-2899.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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