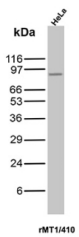
MALT1 Antibody for WB / Western Blot Antibody [clone rMT1/410] (V7669)

Catalog No.	Formulation	Size
V7669-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7669-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7669SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

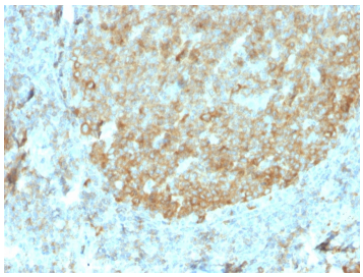
Recombinant MOUSE MONOCLONAL

Bulk quote request

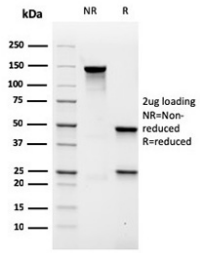
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rMT1/410
Purity	Protein G affinity chromatography
UniProt	Q9UDY8
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This MALT1 Antibody for WB / Western Blot Antibody is available for research use only.



MALT1 Antibody for WB HeLa Lysate. Western blot analysis of Mucosa associated lymphoid tissue lymphoma translocation protein 1 / MALT1 expression in human HeLa cell lysate using recombinant mouse monoclonal antibody clone rMT1/410. This MALT1 Antibody for WB detects a distinct band at approximately the expected molecular weight for MALT1, consistent with expression of the full-length protein. The Western Blot Antibody supports reliable detection of MALT1 in lysate-based assays for analysis of signaling pathway activation and protein expression.



MALT1 Antibody Tonsil IHC. Immunohistochemistry analysis of Mucosa associated lymphoid tissue lymphoma translocation protein 1 / MALT1 expression in FFPE human tonsil tissue using recombinant mouse monoclonal antibody clone rMT1/410. This MALT1 Antibody shows cytoplasmic HRP-DAB brown staining in lymphoid cell populations, while surrounding stromal elements display reduced signal; nuclei are counterstained blue. Antigen retrieval was performed by boiling tissue sections in 10 mM Tris buffer with 1 mM EDTA, pH 9, for 10-20 min followed by cooling at room temperature.



MALT1 Antibody SDS-PAGE. SDS-PAGE analysis of purified MALT1 antibody, clone rMT1/410, under non-reducing (NR) and reducing (R) conditions with 2 ug protein loading. The non-reduced sample shows a predominant band corresponding to intact immunoglobulin, while the reduced sample resolves into bands consistent with heavy and light chains, confirming the purity and structural integrity of this MALT1 antibody.

Description

Mucosa associated lymphoid tissue lymphoma translocation protein 1 (MALT1) is a cytoplasmic paracaspase that plays a central role in antigen receptor signaling and activation of the NF-kappaB pathway in lymphocytes. Mucosa associated lymphoid tissue lymphoma translocation protein 1 (MALT1) functions as both a scaffold and a protease within the CBM complex composed of CARD proteins, BCL10, and MALT1, linking T cell receptor and B cell receptor stimulation to downstream transcriptional responses. MALT1 Antibody for WB / Western Blot Antibody is designed to detect MALT1 in lysate-based assays, enabling evaluation of signaling pathway activation, protein expression levels, and proteolytic processing events in immune and cancer-related systems.

MALT1 antibody, also referred to as mucosa associated lymphoid tissue lymphoma translocation protein 1 antibody or paracaspase MALT1 antibody, recognizes a multi-domain signaling protein that contains a death domain, immunoglobulin-like domains, and a caspase-like protease domain. Upon immune receptor engagement, MALT1 becomes activated and cleaves key regulatory substrates including A20, CYLD, and RelB, thereby amplifying NF-kappaB signaling and promoting inflammatory and survival responses. MALT1 is predominantly localized in the cytoplasm of lymphoid cells and is highly expressed in tissues such as tonsil, lymph node, and spleen, where active immune signaling is ongoing.

This MALT1 Antibody for WB / Western Blot Antibody is supported by western blot data demonstrating detection of MALT1 in HeLa cell lysates, where a distinct band is observed consistent with expected expression of the full-length protein. Western blot analysis is particularly well suited for studying MALT1 because it allows visualization of both the intact protein and potential cleavage products generated during activation. This capability is important for investigating signaling dynamics, as MALT1 proteolytic activity is tightly linked to pathway activation and downstream functional outcomes.

Complementary immunohistochemistry data demonstrates MALT1 expression in FFPE human tonsil tissue, where staining highlights lymphoid cell populations with cytoplasmic localization consistent with its role in immune signaling complexes. This tissue-based detection supports the biological relevance of MALT1 expression patterns and provides spatial context that complements lysate-based analysis. Together, these data support the use of this antibody across both biochemical and tissue-based applications, with particular strength in western blot detection of signaling-related changes.

Dysregulation of MALT1 signaling is implicated in multiple diseases, including mucosa associated lymphoid tissue lymphomas and other B cell malignancies, where constitutive activation of NF-kappaB promotes tumor cell survival and proliferation. MALT1 protease activity has therefore emerged as a therapeutic target, and inhibitors are being investigated for their ability to modulate immune signaling and cancer progression. A MALT1 antibody for western blot can be used to evaluate expression, activation status, and proteolytic processing of MALT1, supporting studies in immunology, oncology,

and signal transduction research.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the MALT1 Antibody for WB / Western Blot Antibody should be determined by the researcher.

Immunogen

A recombinant protein fragment (amino acids 701-808) was used as the immunogen for this antibody.

Storage

Store the recombinant MALT1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

MALT1 antibody, Mucosa associated lymphoid tissue lymphoma translocation protein 1 antibody, Paracaspase MALT1 antibody, PCASP1 antibody, MALT1 western blot antibody