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20-1081: Polyclonal antibody to MALT-1 (Paracaspase)

Clonality :	Polyclonal
Application :	IP,IHC,WB
Reactivity :	Human
Gene :	MALT1
Gene ID :	10892
Uniprot ID :	Q9UDY8
Format :	Sera
Alternative Name :	MALT1,MLT
Isotype :	Rabbit IgG
Immunogen Information :	A recombinant protein fragment of human MALT1/Paracaspase wasÂ used as immunogen for this antibody

Description

MALT1/Paracaspase (MALT1) was independently identified as a member of the human paracaspase family and an interacting partner of B-cell lymphoma. Human MALT1has two isoforms , isoform a is an amino acid protein of 824 amino acids, and human MALT1 isoform b is an amino acid protein of 813 amino acids. MALT1 is a caspase-like protein that contains an N-terminal death domain, two Ig-like domains, and a C-terminal caspase-like domain. It binds to Bcl10 through its Ig-like domains and cooperates with Bcl10 to activate NF-kappaB. MALT1 is thought to play an important role in NF-kappaB signaling by enchancing NF-kappaB activation through interaction with Bcl10. Interaction between MALT1 and Bcl10 mediates IKK activation in vitro through facilitatiing the ubiquitination of NEMO by the ubiquitin-conjugating enzyme UBC13. Four recurrent chromosomal translocations have been described in non-Hodgkin B-cell lymphoma of the mucosa-associated lymphoid issue (MALT) type. Translocations involving Bcl10 and MALT1 may lead to elevated NF-kappaB activity in MALT B-cell lymphoma. Two alternatively spliced transcript variants encoding different isoforms and have been described for the MALT1 gene.

Product Info

Amount :	50 µl
Content :	50 µl sera
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

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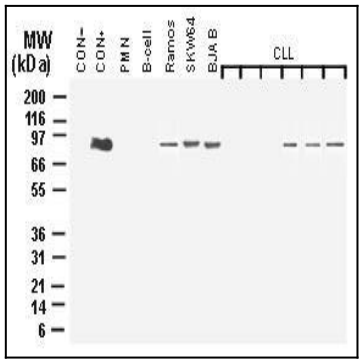

Fig:1 Western blot analysis of MALT1/Paracaspase expression using 20-1081 at 1:2000. HEK293N cells transiently transfected with control (empty) plasmid (Ctl-) or human full-length MALT1 (Ctl+) were used as negative or positive controls, respectively. Freshly isolated human polymorphonuclear neutrophils (PMN) and resting B-cells were negative. MALT1 expression was detected in SKW64, Ramos, and BJAB B-cell lymphoma lines, and 3 out of 6 B-cell chronic lymphocytic luekemia (CLL) patients.

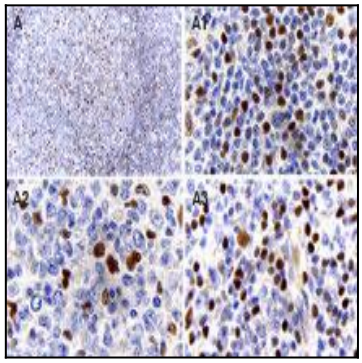

Fig:2 Immunohistochemical analysis of MALT1/Paracaspase expression in formalin-fixed human reactive lymph node using 20-1081 at 1:2000. A. Low magnification. A1-3, high magnification from A: A1, mantle zone. A2, germinal center. A3. marginal zone. Hematoxylin-eosin counterstain.