

## LMO2

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	1A9-1
PROTEIN:	human full length LMO2
PROTEIN WEB:	<a href="http://www.ncbi.nlm.nih.gov/protein/214832074">http://www.ncbi.nlm.nih.gov/protein/214832074</a>
ANTIGEN USED:	GST-LMO2
FUSION PARTNER:	K6H6B5
ISOTYPE:	IgG1
SPECIES REACTIVITY:	human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze.
APP RECOMMENDED:	IHQ-paraffin, WB, IF
APP NO TESTED:	IHQ-frozen, IP, Flow cytometry

### DESCRIPTION

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LMO2 encodes a cysteine-rich, two LIM-domain protein that is required for yolk sac erythropoiesis. The LMO2 protein has a central and crucial role in hematopoietic development and is highly conserved. The LMO2 transcription start site is located approximately 25 kb downstream from the 11p13 T-cell translocation cluster (11p13 ttc), where a number T-cell acute lymphoblastic leukemia-specific translocations occur. Alternative splicing results in multiple transcript variants encoding different isoforms. LMO2 protein is expressed as a nuclear marker in normal germinal-center (GC) B cells and GC-derived B-cell lines and in a subset of GC-derived B-cell lymphomas. LMO2 is expressed in erythroid and myeloid precursors and in megakaryocytes and also in lymphoblastic and acute myeloid leukemias. It is rarely expressed in mature T, natural killer (NK), and plasma cell neoplasms and is absent from nonhematolymphoid tissues except for endothelial cells.

### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

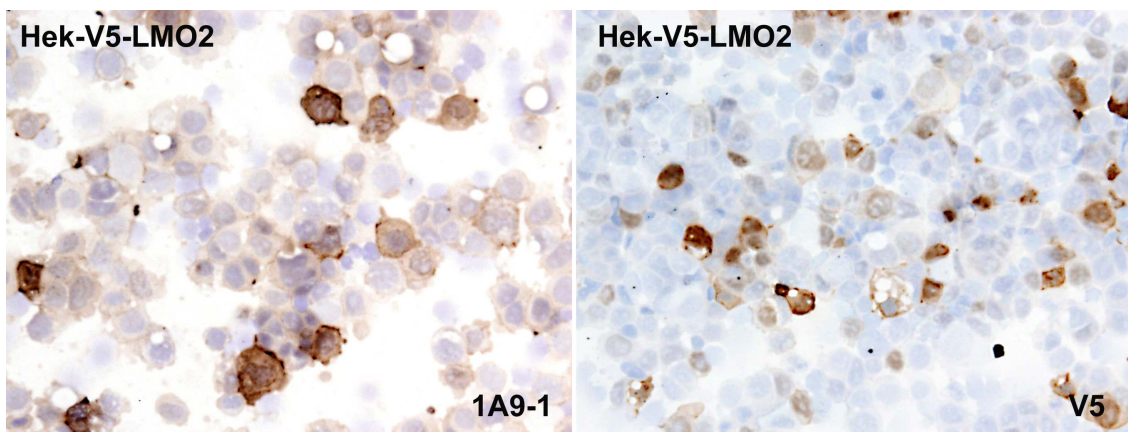
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Yasodha Natkunam, Shuchun Zhao, David Y. Mason, Jun Chen, Behnaz Taidi, Margaret Jones, Anne S. Hammer, Stephen Hamilton Dutoit, Izidore S. Lossos and Ronald Levy. The oncoprotein LMO2 is expressed in normal germinal-center B cells and in human B-cell lymphomas. 2007

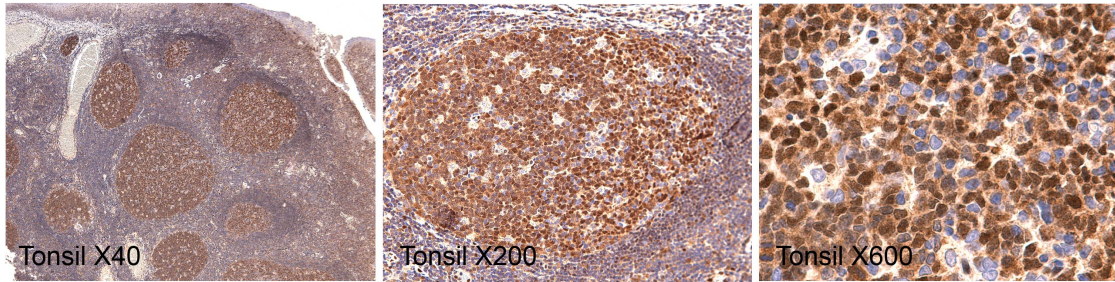
109: 1636-1642.

**APPLICATIONS**

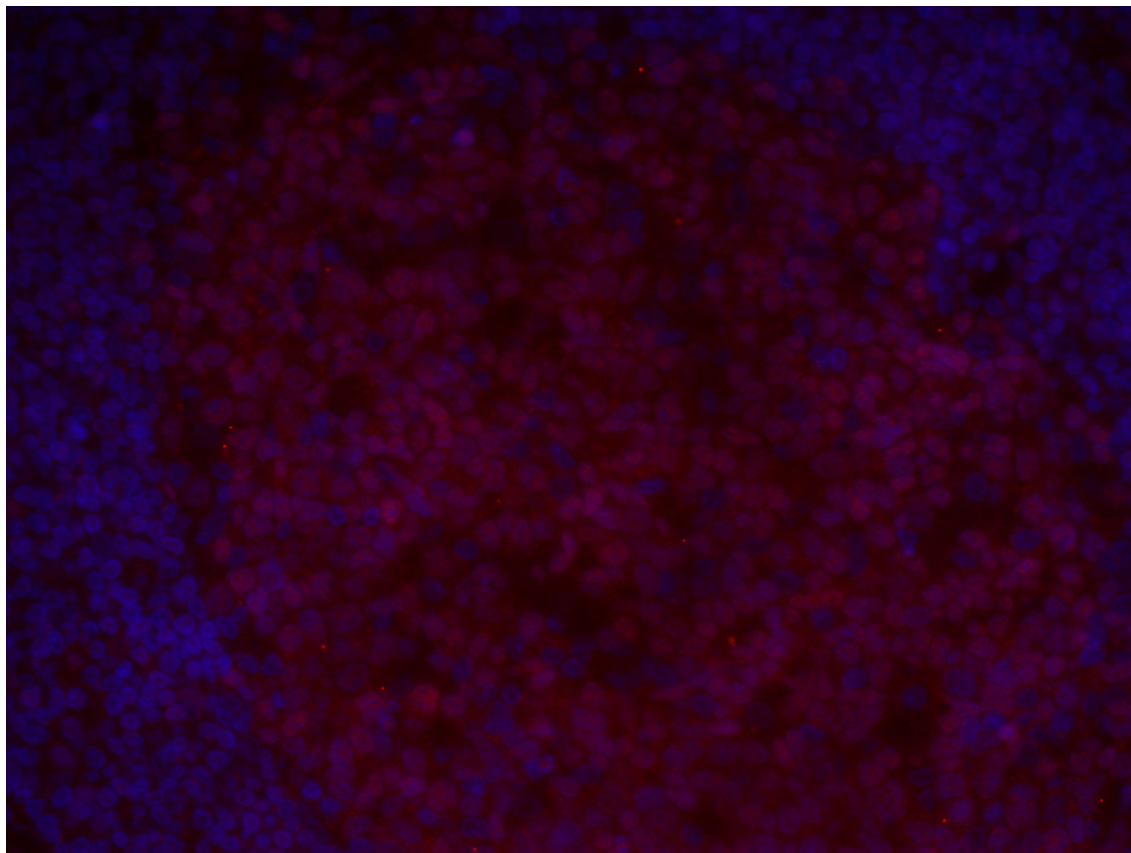
IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Paraffin tissue									
Recommended	1A9-1	1:4		Tris-EDTA	Leica Bond Max	Tonsil			
Immunofluorescence									
Recommended	1A9-1	1:100	supernatant			Tonsil			

**LMO2 antibody (1A9-1) in transfected cells**

Cytoplasmic staining of LMO2 mAb in transfected HEK-V5-LMO2 cells. Anti-V5 mAb was used as positive control.



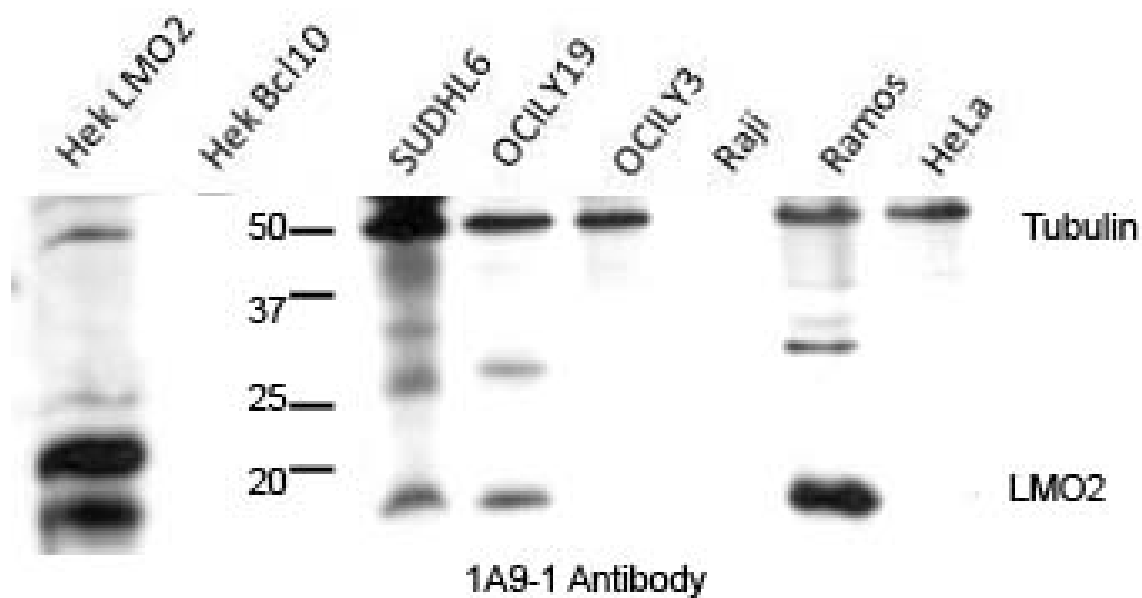
**Anti-LMO2 in tonsil paraffin sections**



#### LMO2 (1A9-1) immunofluorescence in human paraffin tonsil.

Anti-LMO2 (1A9-1) is represented in red. DAPI in blue.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
<b>Western Blotting</b>								
Recommended	1A9-1	Neat	Supernatant	Ramos cell line	Hela cell line	18kDa	18kDa	
<b>Immunoprecipitation</b>								



### Anti-LMO2 in western blotting technique

Tubulin was used as loading control.

Lane 1 Transfected Hek-pcdna3-V5-LMO2 (20ug) (+)

Lane 2 Transfected Hek-pcdna3-V5-Bcl10 (20ug) (-)

Lane 3 SUDHL6 cell line (200ug) (+)

Lane 4 Ocil19 cell line (200ug) (+)

Lane 5 Ocily3 cell line (200ug) (-)

Lane 6 Raji cell line (200ug) (-)

Lane 7 Ramos cell line (200ug) (+)

Lane 8 HeLa cell line (200ug) (-)