

## MNDA

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	253A
PROTEIN:	Human full length MNDA
PROTEIN WEB:	<a href="http://www.ncbi.nlm.nih.gov/omim/159553">http://www.ncbi.nlm.nih.gov/omim/159553</a>
ANTIGEN USED:	MNDA-GST-HIS recombinant protein
FUSION PARTNER:	splenocytes & myeloma p3-NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG1
SPECIES REACTIVITY:	Human
PREPARATION AND STORAGE:	Aliquot and store at 4°C. Do not freeze.
APP RECOMMENDED:	IHQ-paraffin, IF, WB
APP NO RECOMMENDED:	IHQ-frozen
APP NO TESTED:	Flow cytometry, IP

### DESCRIPTION

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MNDA (myeloid cell nuclear differentiation antigen) is a 55kDa nuclear protein constitutively expressed in myelomonocytic leukemia cells, myelomonocytic cell lines, and normal peripheral blood granulocytes and monocytes. A low level of expression has also been found in a population of mantle B lymphocytes but no expression exists in germinal centre cells or plasma cells.

### PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

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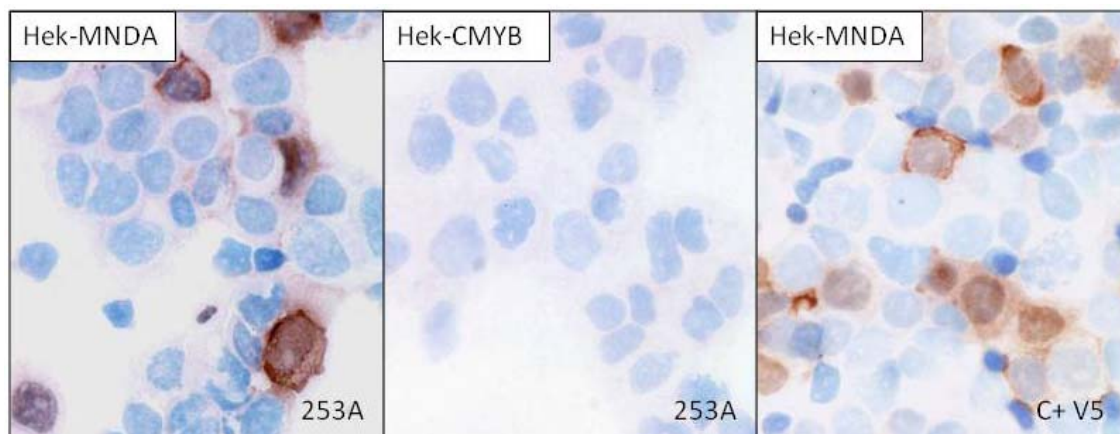
Kanellis G, Roncador G, Arribas A, Mollejo M, Montes-Moreno S, Maestre L, Campos-Martin Y, Ríos Gonzalez JL, Martinez-Torrecedrada JL, Sanchez-Verde L, Pajares R, Cigudosa JC, Martin MC, Piris MA (2009). Identification of MNDA as a new marker for nodal marginal zone lymphoma. *Leukemia* 23(10):1847-57.<http://www.ncbi.nlm.nih.gov/pubmed/19474799>

## REFERENCES

Kanellis G, Roncador G, Arribas A, Mollejo M, Montes-Moreno S, Maestre L, Campos-Martin Y, Ríos Gonzalez JL, Martinez-Torrecuadrada JL, Sanchez-Verde L, Pajares R, Cigudosa JC, Martin MC, Piris MA (2009). Identification of MNDA as a new marker for nodal marginal zone lymphoma. *Leukemia* 23(10):1847-57.

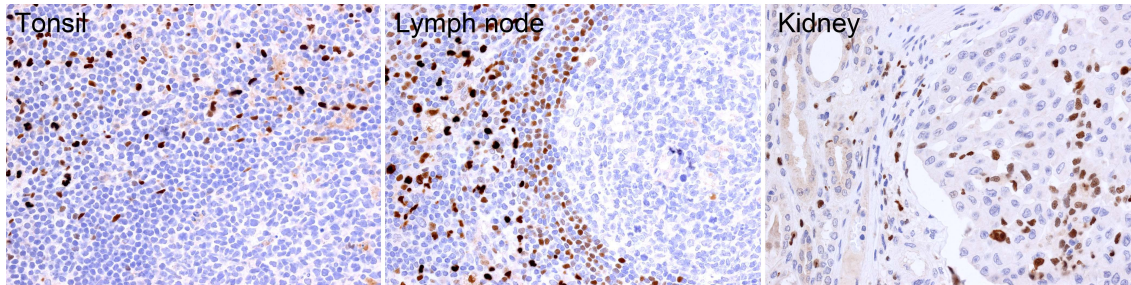
## APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
<b>Frozen tissue and cytopspins</b>									
Recommended	253A	neat	supernatant	/	goat anti mouse HRP DAKO	tonsil		nuclear	
<b>Paraffin tissue</b>									
Recommended	253A	neat	supernatant	ER2 (Tris-EDTA) 15 min	Novolink	tonsil		nuclear	
<b>Immunofluorescence</b>									
Recommended	253A	neat	supernatant			tonsil		nuclear	



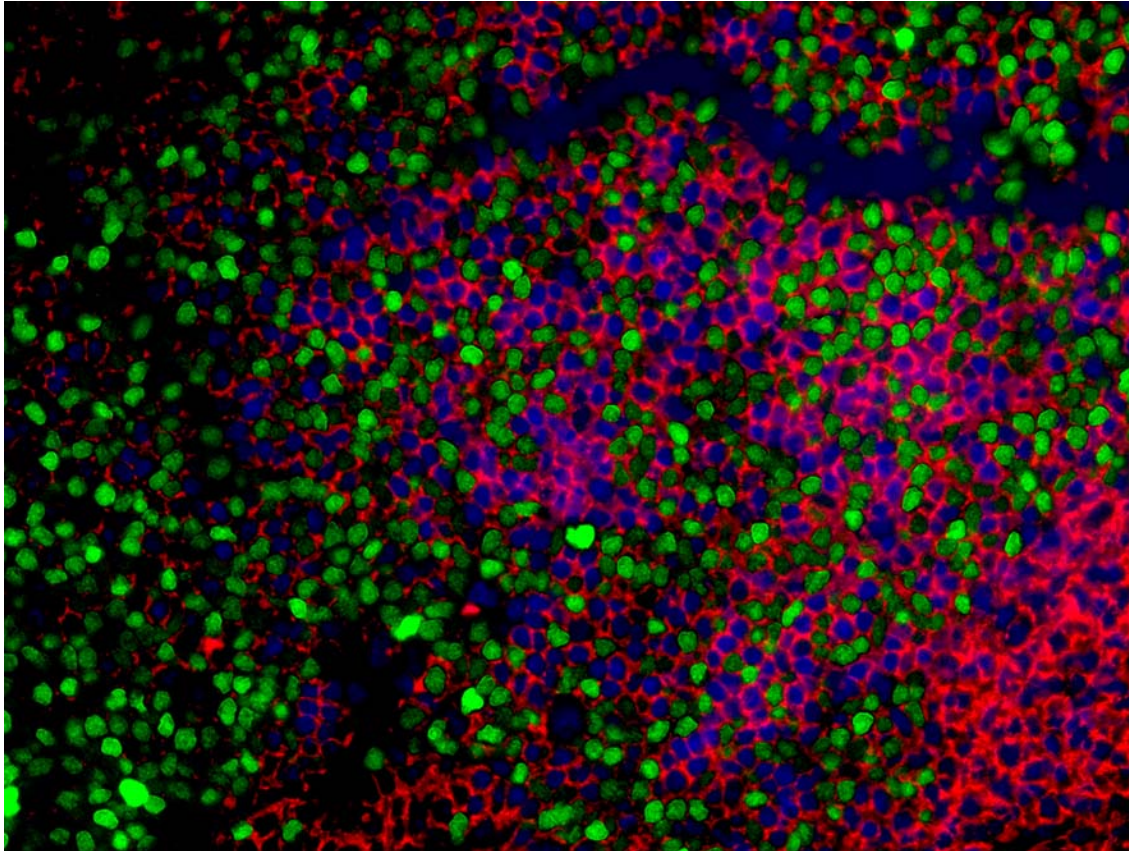
**MNDA antibody (253A) in transfected cells.**

Validation of MNDA (253A) monoclonal antibody in HEK-V5-MNDA transfected cells. HEK-CMYB transfected cells was used as negative control. Anti-V5 monoclonal antibody was used as positive control.



**MNDA (253A) immunohistochemistry in human paraffin sections.**

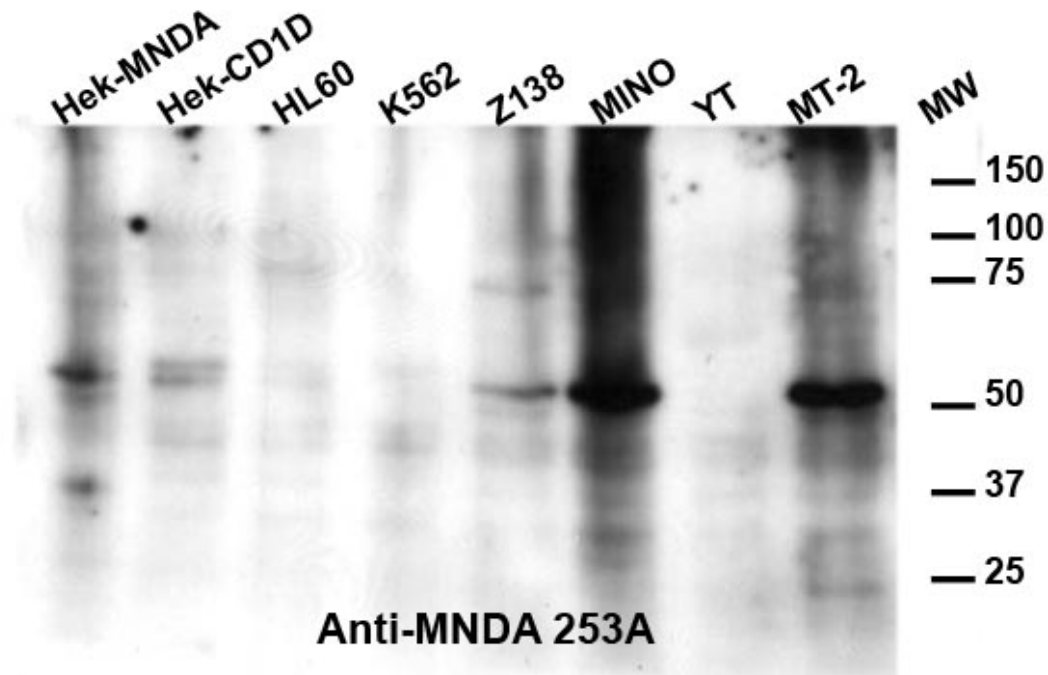
MNDA protein is detected in the nucleus of mature granulocyte and monocyte cells. MNDA is also expressed, although with less intensity, by cells occupying the marginal zone surrounding the germinal centers (GCs) in normal tonsil. The GCs of all follicles are negative for MNDA. Reactive monocytoïd B cells and plasma cells do not express MNDA



**MND (253A) immunofluorescence in human paraffin tonsil.**

MND (253A) nuclear protein in green, CD20 membrane staining in red and 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	253A	neat	supernatant	Mino cell line	YT cell line	55kDa	48kDa	
<b>Immunoprecipitation</b>								



**Western Blotting of MNDA (253A) using different lymphoma cell lines and transfected cells.**

Lane 1 Hek-MNDA (10ug) (+)

Lane 2 Hek-CD1D (10ug) (-)

Lane 3 HL60 (100ug) (-)

Lane 4 K562 (100ug) (-)

Lane 5 Z138 (100ug) (+)

Lane 6 Mino (100ug) (+)

Lane 7 YT (100ug) (-)

Lane 8 MT-2 (100ug) (+)