SUZ12

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	mouse anti human
CLONE NAME:	220A
PROTEIN:	human SUZ12
PROTEIN WEB:	http://www.ncbi.nlm.nih.gov/protein/197333809
ANTIGEN USED:	MBP-SUZ12 recombinant protein
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG1
SPECIES REACTIVITY:	Human and mouse
PREPARATION AND STORAGE:	STORAGE: Aliquot and store at 4C. Do not freeze
APP RECOMMENDED:	IHQ-paraffin, IHQ-frozen, IF, WB
APP NO TESTED:	Flow cytometry, IP

DESCRIPTION

This zinc finger gene has been identified at the breakpoints of a recurrent chromosomal translocation reported in endometrial stromal sarcoma. Recombination of these breakpoints results in the fusion of this gene and JAZF1. The protein encoded by this gene contains a zinc finger domain in the C terminus of the coding region.

PUBLICATION DESCRIBING ANTIBODY CHARACTERIZATION/VALIDATION

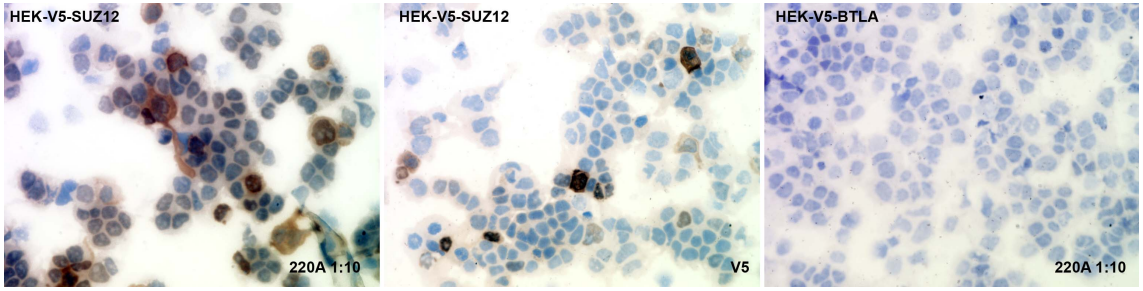
Deregulated expression of the polycomb-group protein SUZ12 target genes characterizes mantle cell lymphoma. Martín-Pérez D, Sánchez E, Maestre L, Suela J, Vargiu P, Di Lisio L, Martínez N, Alves J, Piris MA, Sánchez-Beato M. Am J Pathol 2010 Aug;177(2):930-42. http://www.ncbi.nlm.nih.gov/pubmed?term=maestre%20l%20sanchez-beato%20m

REFERENCES

Deregulated expression of the polycomb-group protein SUZ12 target genes characterizes mantle cell lymphoma. Martín-Pérez D, Sánchez E, Maestre L, Suela J, Vargiu P, Di Lisio L, Martínez N, Alves J, Piris MA, Sánchez-Beato M. Am J Pathol 2010 Aug;177(2):930-42.

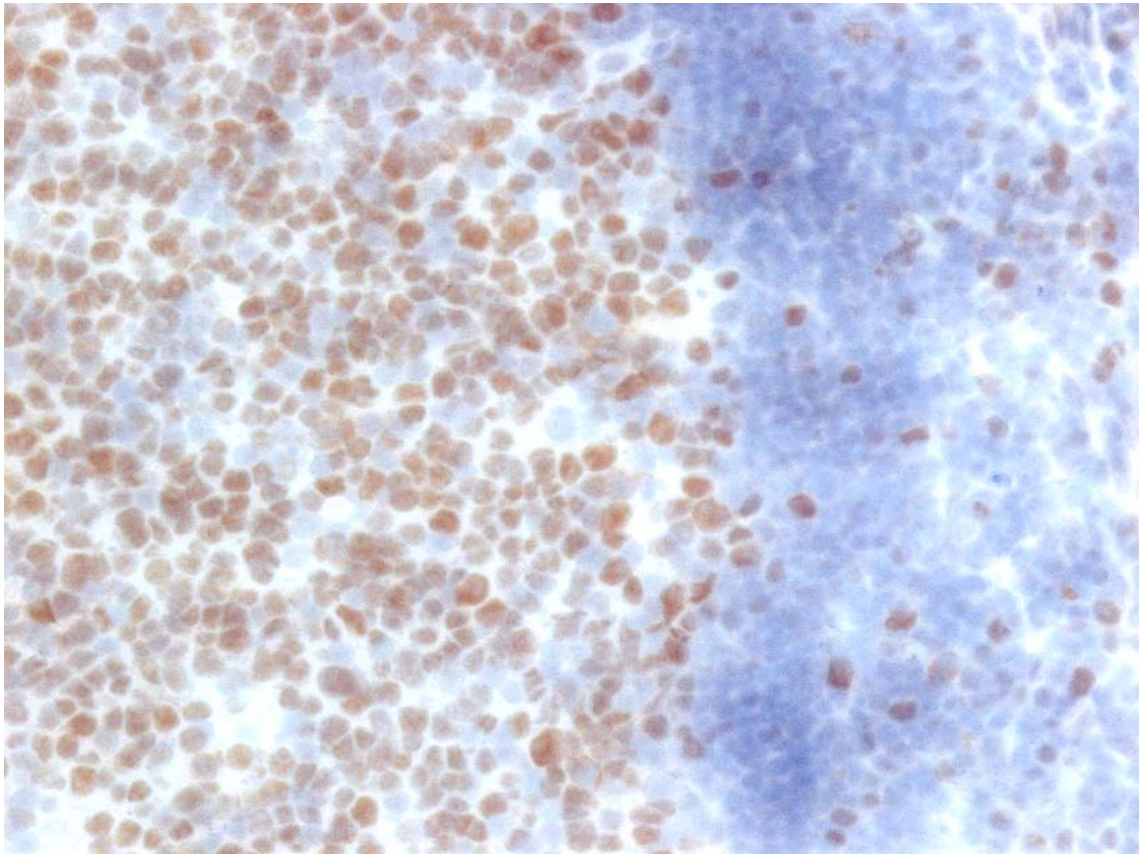
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytospins									
Recommended	220A	neat	supernatant	no		tonsil		nuclear	
Paraffin tissue									
Recommended	220A	neat	supernatant	Tris-EDTA		tonsil		nuclear	mouse
Immunofluorescence									
Recommended	220A	1:100	purified 1mg/ml			tonsil		nuclear	

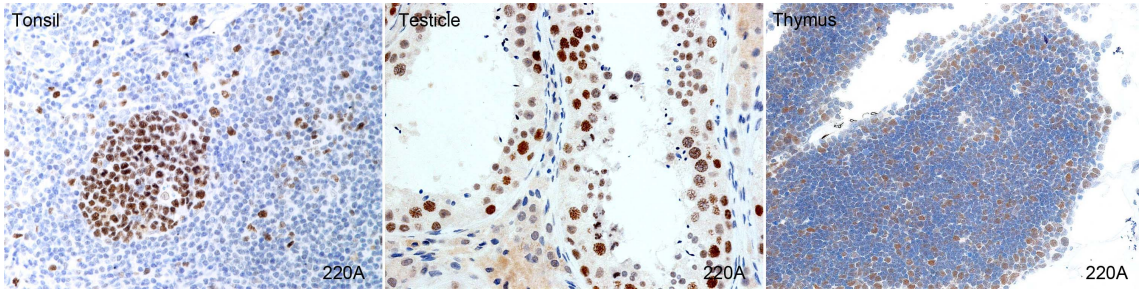


220A mAb in transfected cells

Nuclear staining on frozen cytospin preparations of transfected HEK293T-V5-SUZ12 cells using antibody 220A. Anti-V5 antibody was used as positive control. HEK-V5-BTLA transfected cells were used as negative control.

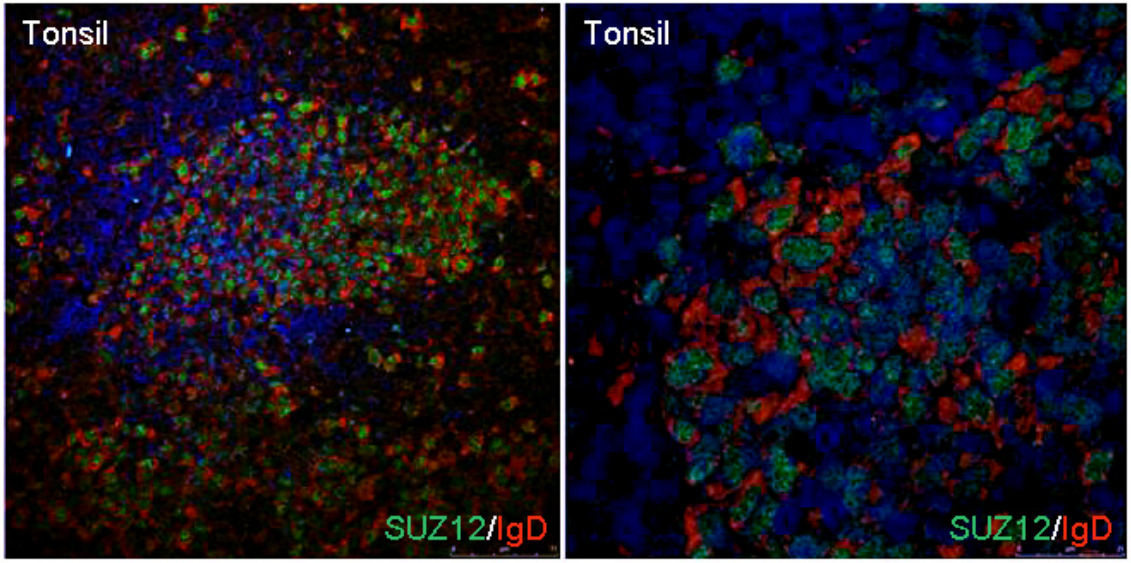


Antibody 220A can be used to detect SUZ12 protein in human frozen tonsil.



220A staining in human paraffin sections.

SUZ12 protein is strongly expressed by proliferating cells in tonsil germinal center as well as in germinal cells of the testis.

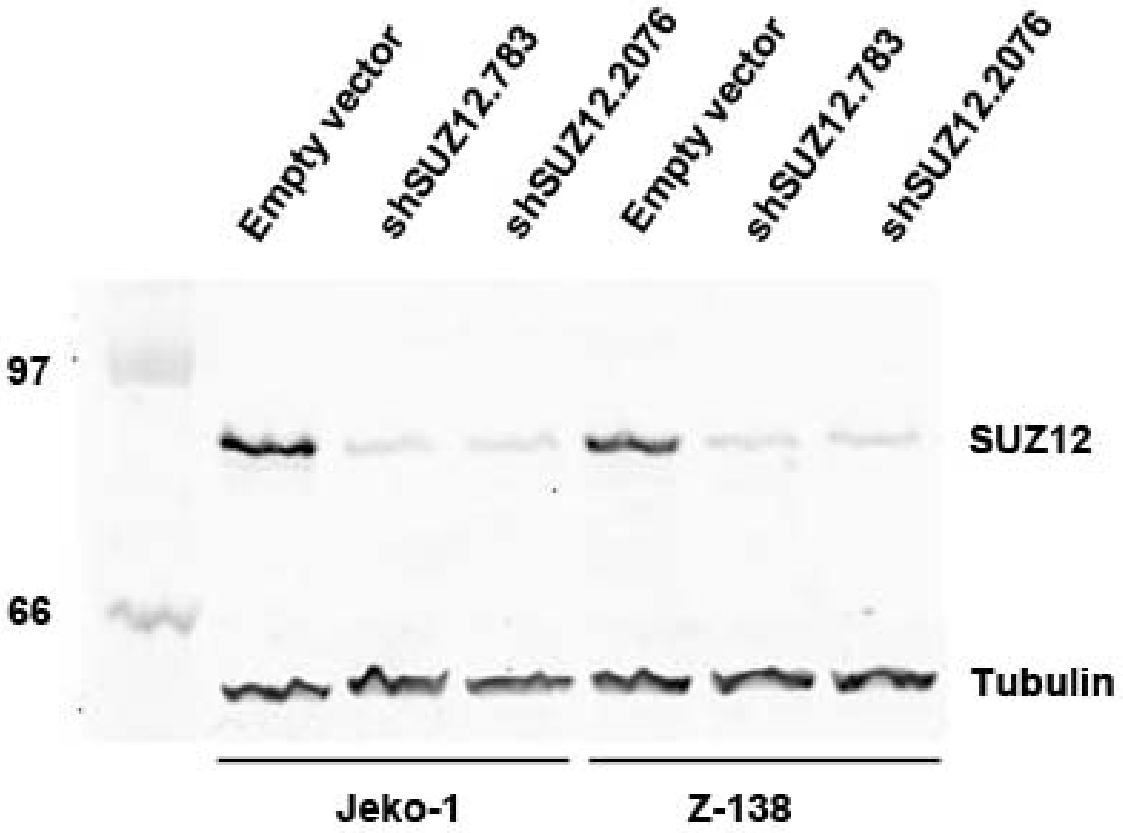


Double immunofluorescence staining.

SUZ12 (220A) nuclear protein in green and IgD membrane staining in red.

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species

Western Blotting								
Recommended	220A	neat	supernatant	Hela		83kDa	83kDa	mouse
Immunoprecipitation								



Effect of SUZ12 RNA interference (siRNA) in Jeko-1 and Z-138 mantle cell lymphoma cell lines.

Effect of SUZ12 RNA interference (siRNA) in Jeko-1 and Z-138 mantle cell lymphoma cell lines treated with two different hairpins against SUZ12 during three days. A control cell line (empty vector) was used as negative control. Expression of SUZ12 was analyzed using 220A mAb. A decrease of protein expression was observed in siSUZ12 Jeko-1 and Z-138 cell extracts confirming antibody specificity. Band signals were normalized with tubulin as a loading control. This image was kindly donated by Margarita

Sánchez-Beato PhD.

200A mAb in WB

Lane 1 Hek-SUZ12-V5 (30?g) (+)

Lane 2 Hek-mTIMP2 (30ug) (-)

Lane 3 Hela cell line (200?g) (+)

Lane 4 Jeko1 cell line (200ug) (+)

Lane 5 human tonsil (200ug) (-)

Lane 6 human brain (200ug) (-)

Lane 7 MT-2 cell line (200ug) (+)

Lane 8 3T3 mouse cell line (200ug) (-)

Lane 9 U266 cell line (200ug) (+)

Tubulin was used as loading control.