

MNDA | Validation File

TARGET MNDA (myeloid cell nuclear differentiation antigen)

CLONE NAME 253A

DESCRIPTION mouse monoclonal

ANTIGEN USED full length MNDA-GST recombinant protein

ISOTYPE IgG1

SPECIES REACTIVITY human

LOCALIZATION nuclear

POSITIVE CONTROL tonsil


STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

Purified antibody: PBS plus 1%BSA and 0.02% sodium azide. MAb concentration: 1mg/ml

STORAGE Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

 Not Tested

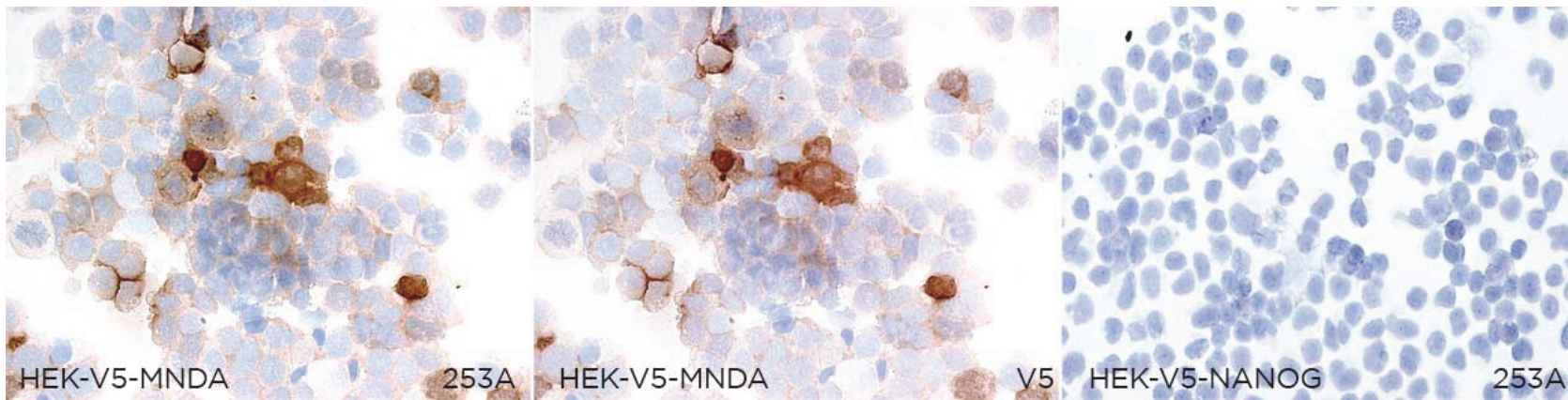
APPLICATIONS

● | ICC | *Immunocytochemistry*

253A antibody is able to detect human MNDA protein in immunocytochemistry

DILUTION neat supernatant

To confirm that 253A mAb recognizes human MNDA protein, immunocytochemistry on frozen cytospin preparations of V5-tagged MNDA in HEK293 cell line was performed. Anti-V5 was used as positive control.



● | WB | **Western Blotting**

253A antibody is able to detect human MNDA protein by WB.

DILUTION neat supernatant and 1:300 (purified Ab 1mg/ml)

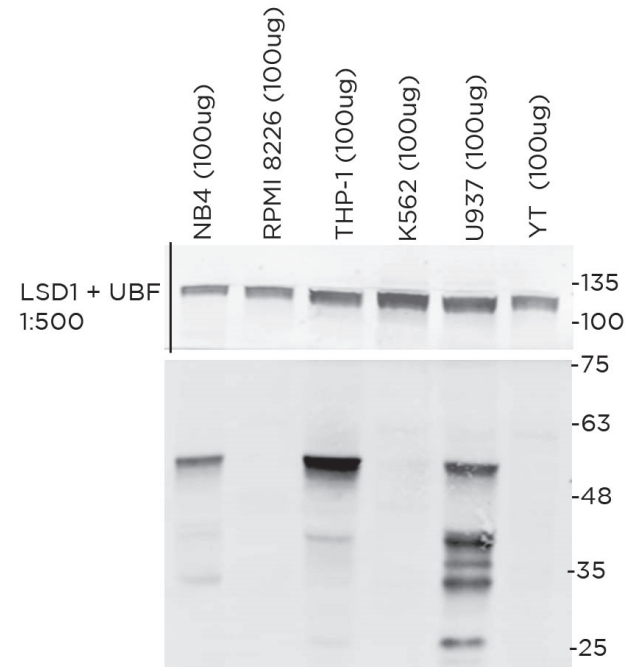
Predicted molecular weight: **46kDa**

Observed molecular weight: **50kDa**

LANES

Lane 1 NB4 cell line	(100ug) (+)
Lane 2 RPMI8226 cell line	(100ug) (-)
Lane 3 THP-1 cell line	(100ug) (+)
Lane 4 K562 cell line	(100ug) (-)
Lane 5 U937 cell line	(100ug) (+)
Lane 6 YT cell line	(100ug) (-)

Anti-LSD1 was used as loading control.



● | IHC-P | **Immunohistochemistry (paraffin)**

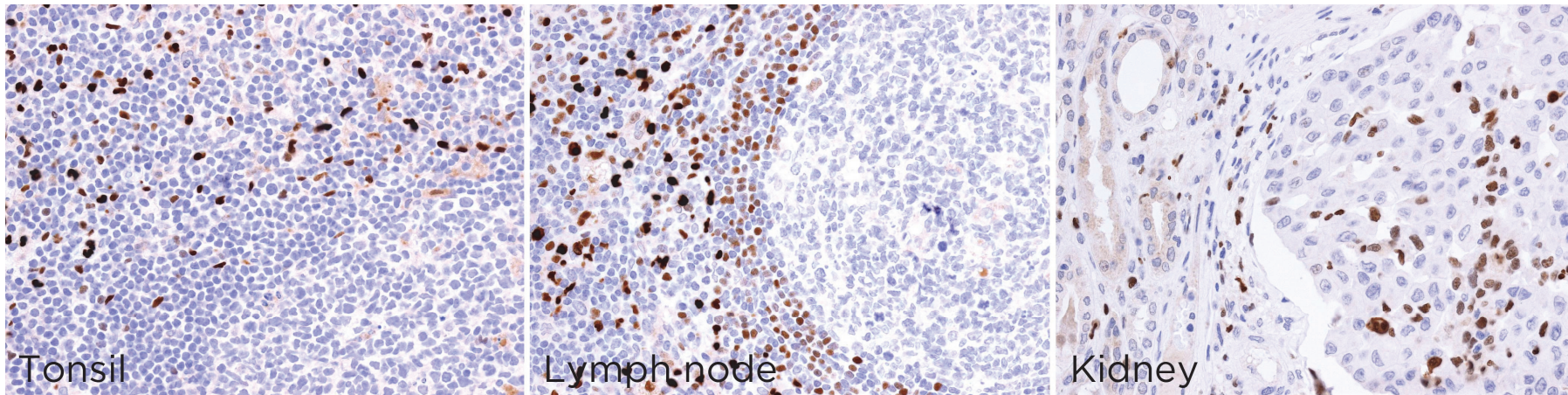
253A mAb can be used to detect MNDA protein in human paraffin tissues

TISSUE SAMPLE Human tonsil, lymph node and kidney

DILUTION 1:500 (purified antibody)

ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

DETECTION SYSTEM Novolink kit (BondMax Leica)



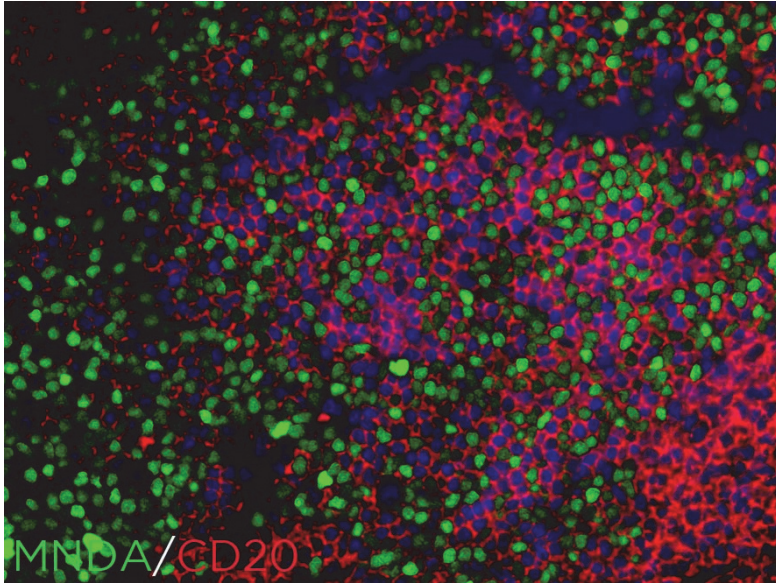
● | IF | **Immunofluorescence (paraffin)**

253A mAb can be used to detect MNDA protein by immunofluorescence

TISSUE SAMPLE human tonsil

DILUTION 1:300 (purified antibody)

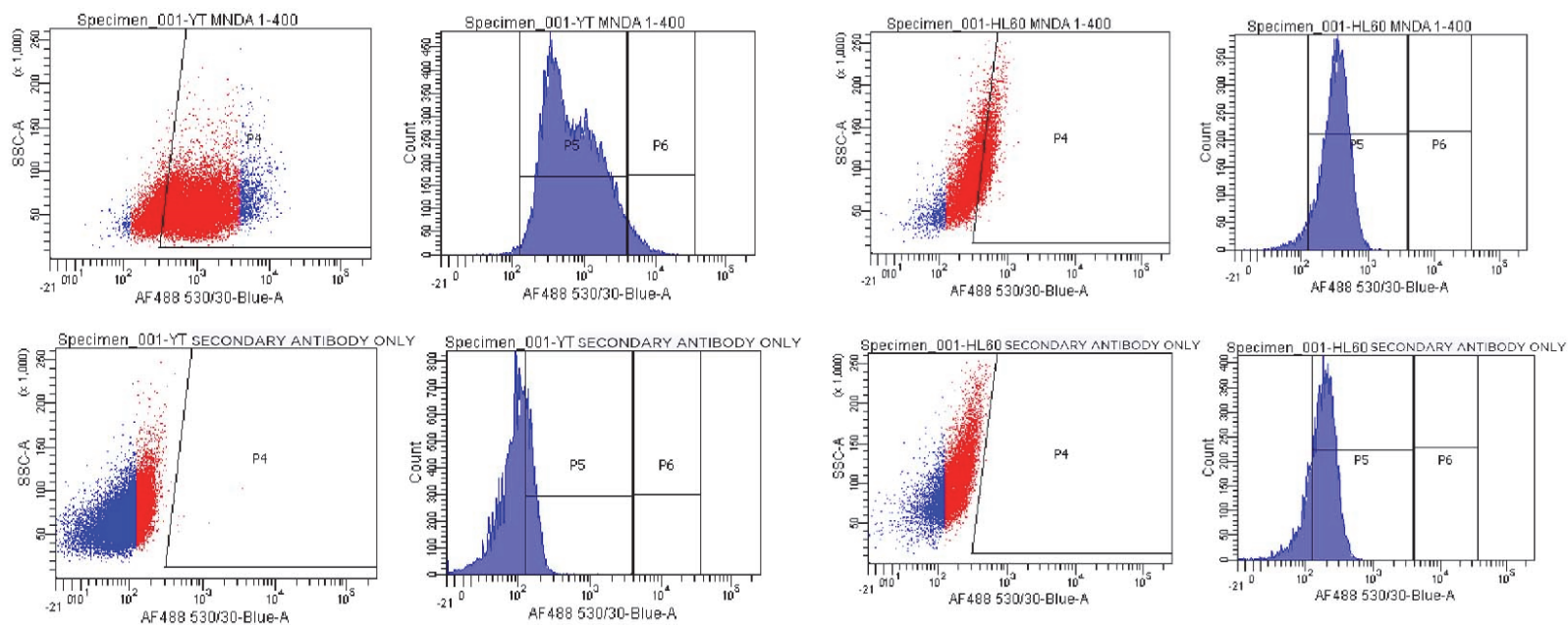
ANT. RETRIEVAL Tris-EDTA



● | FC | **Flow Cytometry**

SAMPLE human YT and HL60 cell lines

ANTIBODY DILUTION 1:400 (purified antibody)



● | IHC-F | **Immunohistochemistry (frozen)** Not tested

● | IP | **Immunoprecipitation** Not Tested

SOLD BY Abcam and BD Biosciences

REFERENCES

Kanellis G, Roncador G, Arribas A, Mollejo M, Montes-Moreno S, Maestre L, Campos-Martin Y, Martinez-Torrecedrada JL, Sanchez-Verde L, Pajares R, Cigudosa JC, Martin MC and Piris MA. Identification of MNDA as a new marker for Nodal Marginal Zone Lymphoma. *Leukemia*. 2009 Oct;23(10):1847-57. Epub 2009 May 28.

De Bont CM, Eerden N, Boelens WC, Pruijn GJM. Neutrophil proteases degrade autoepitopes of NET-associated proteins. *Clin Exp Immunol*. 2020 Jan;199(1):1-8. doi: 10.1111/cei.13392. Epub 2019 Nov 15.