

WRN | Validation File

TARGET WRN (Werner Syndrome protein)

CLONE NAME 195C

DESCRIPTION mouse monoclonal

ANTIGEN USED GST-WRN (1072aa-1432aa) recombinant protein

ISOTYPE IgG1

SPECIES REACTIVITY human

LOCALIZATION nuclear

POSITIVE CONTROL Testicle

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

STORAGE Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

 Not Tested

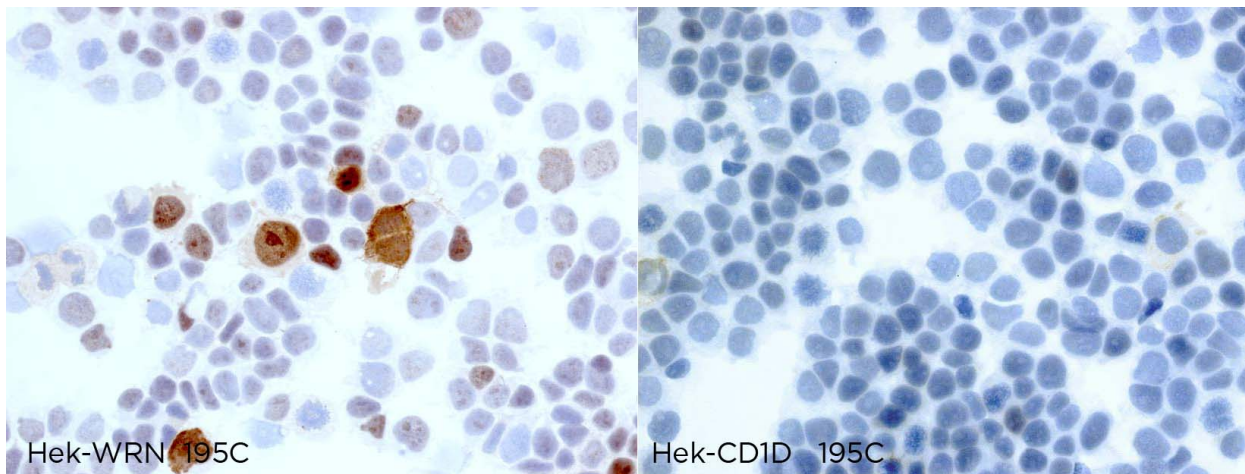
APPLICATIONS

● | ICC | Immunocytochemistry

WRN195C is able to detect human WRN protein in immunocytochemistry

DILUTION neat supernatant

To confirm that WRN195C mAb recognizes human WRN protein, immunocytochemistry on frozen cytospin preparations of human WRN expressed in HEK293T was performed. Cytospin preparation of human CD1D protein was used as a negative control.



● | WB | **Western Blotting**

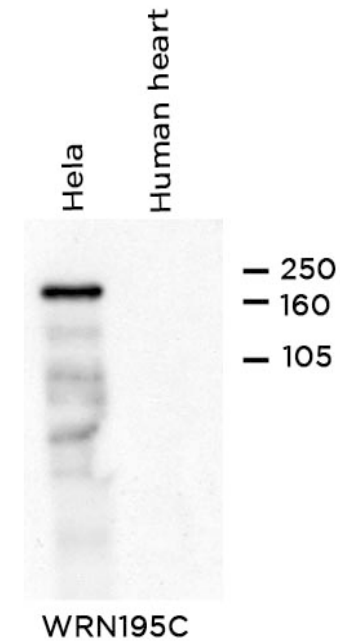
195C mAb is able to detect human WRN protein by WB.

DILUTION 1:3 supernatant

Predicted molecular weight: **162kDa**
Observed molecular weight: **162kDa**

LANES

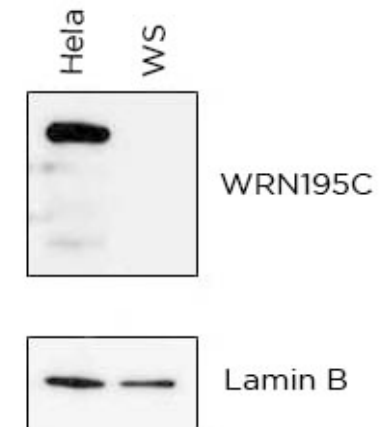
Lane 1 HeLa cell line (200ug) (+)
Lane 2 Human heart (200ug) (-)



LANES

Lane 1 HeLa cell line (5 ul/lane, 50,000 cells/lane) (+)
Lane 2 WS (AG11395, fibroblast of a patient with Werner Syndrome immortalized with SV40, 6 ul/lane, 60,000 cells/lane) (-)

Lamin B was used as a loading control



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

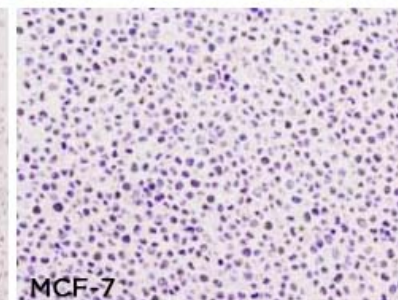
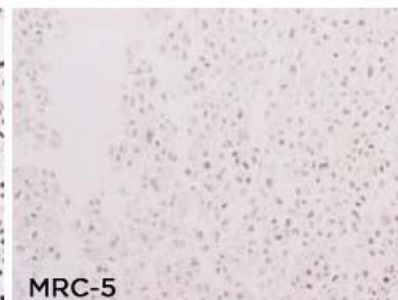
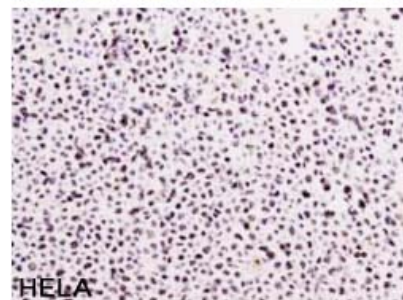
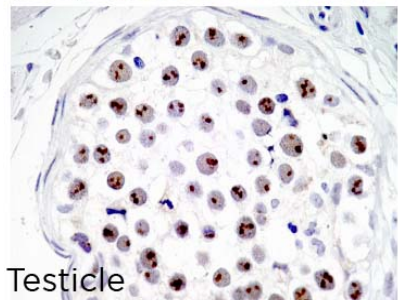
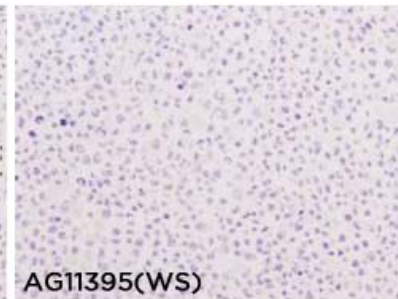
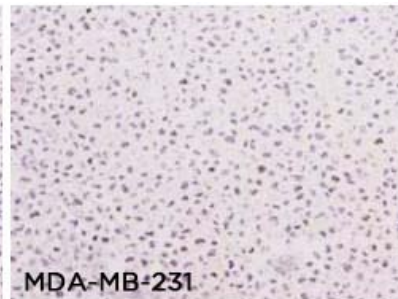
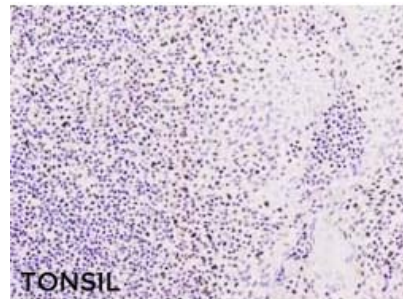
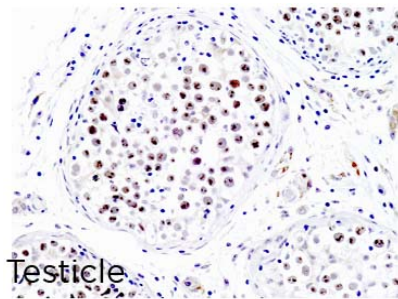
195C mAb can be used to detect WRN protein in human paraffin tissues

TISSUE SAMPLE Human testicle, human tonsil, MDA-MB-231 (breast adenocarcinoma cell line), AG11395 WS (fibroblast of a patient with Werner Syndrome immortalized with SV40, negative control), HeLa cell line, MRC-5 (lung fibroblast cell line) and MCF-7 (breast carcinoma cell line).

DILUTION 1:10 supernatant

ANT. RETRIEVAL Citrate+PK

DETECTION SYSTEM Novolink kit (BondMax Leica)

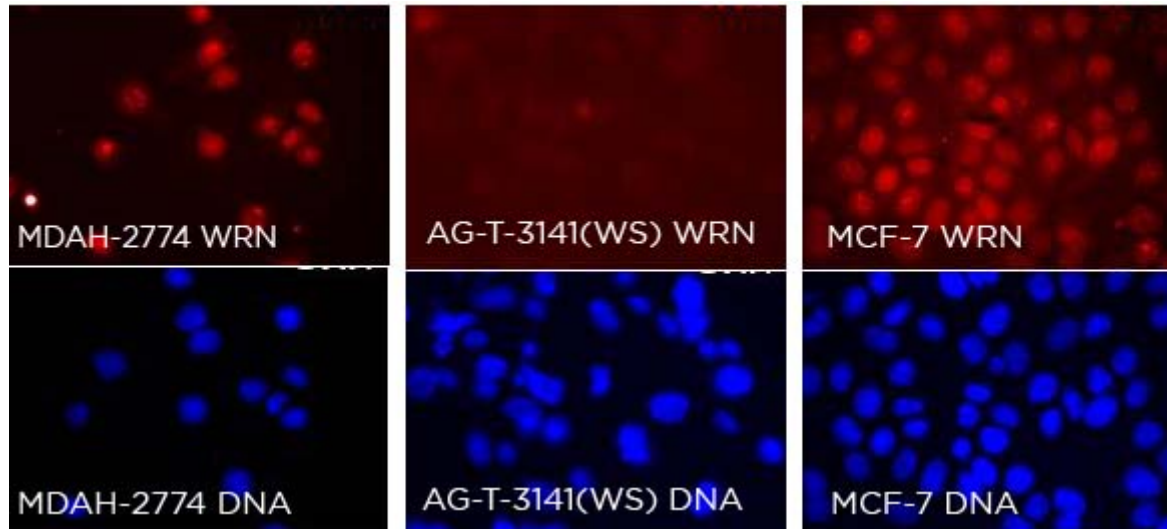


● | IF | **Immunofluorescence (paraffin)**

195C mAb can be used to detect WRN protein by immunofluorescence

SAMPLE MDAH-2774 (Ovarian adenocarcinoma), AG-T-3141 (WS) (fibroblast WS patient, negative control) and MCF-7 (breast adenocarcinoma).

DILUTION neat supernatant



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

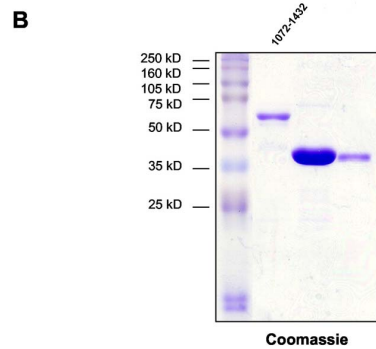
● | FC | **Flow Cytometry** Not tested

● | IP | **Immunoprecipitation** Not Tested

SOLD BY Millipore and Active Motif

ADDITIONAL INFORMATION

- A. Functional domains of WRN and recombinant WRN fragment (1072-1432) corresponding to the antigen used for antibody production.
- B. WRN fragment was purified and analyzed by SDS-PAGE and visualized by Coomassie Blue staining.



This image has been obtained by the article: Von Kobbe C, Thomä NH, Czyzewski BK, Pavletich NP, Bohr VA. Werner syndrome protein contains three structure-specific DNA binding domains. *J Biol Chem.* 2003 Dec 26;278(52):52997-3006.

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