

PLK5 | Validation File

TARGET PLK5 (Polo-like kinase 5)

CLONE NAME MUSE286C

DESCRIPTION mouse monoclonal

ANTIGEN USED HIS-GST-hPLK5 full length protein

ISOTYPE IgG1

SPECIES REACTIVITY human and mouse

LOCALIZATION cytoplasmic in human and nuclear in mice

POSITIVE CONTROL nervous system

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

STORAGE Aliquot and store at 4C. Do not freeze

 Recommended

 Inconclusive

 Not Recommended

 Not Tested

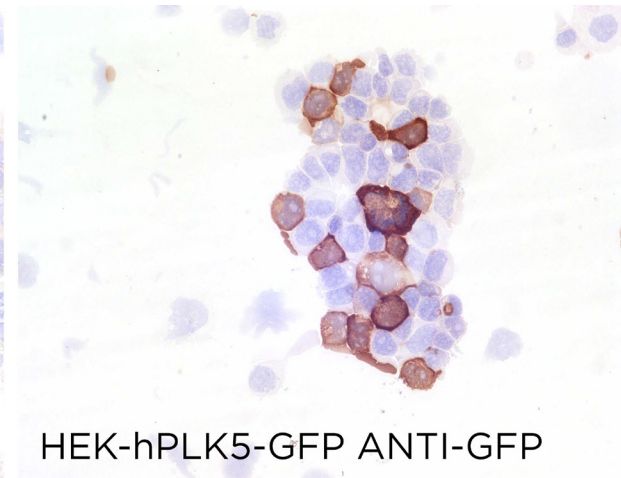
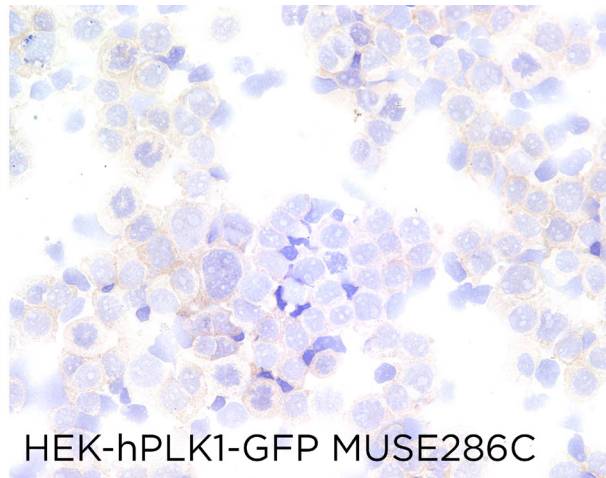
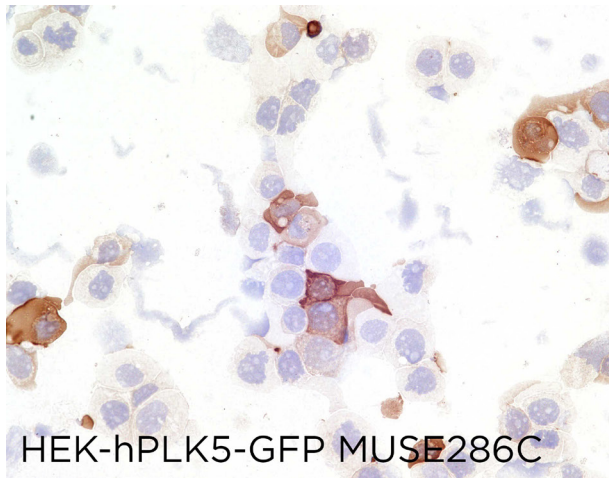
APPLICATIONS

● | ICC | Immunocytochemistry

MUSE286C mAb is able to detect human PLK5 protein in immunocytochemistry

DILUTION no dilution (neat supernatant)

To confirm that MUSE286C mAb recognizes human PLK5 protein, immunocytochemistry on frozen cytospin preparations of GFP-tagged human PLK5 expressed in HEK293 was performed. Cytospin preparation of human GFP-tagged human PLK1 protein was used as a negative control. Labeling with the anti-GFP antibody confirmed transfection efficiency.



● | WB | Western Blotting

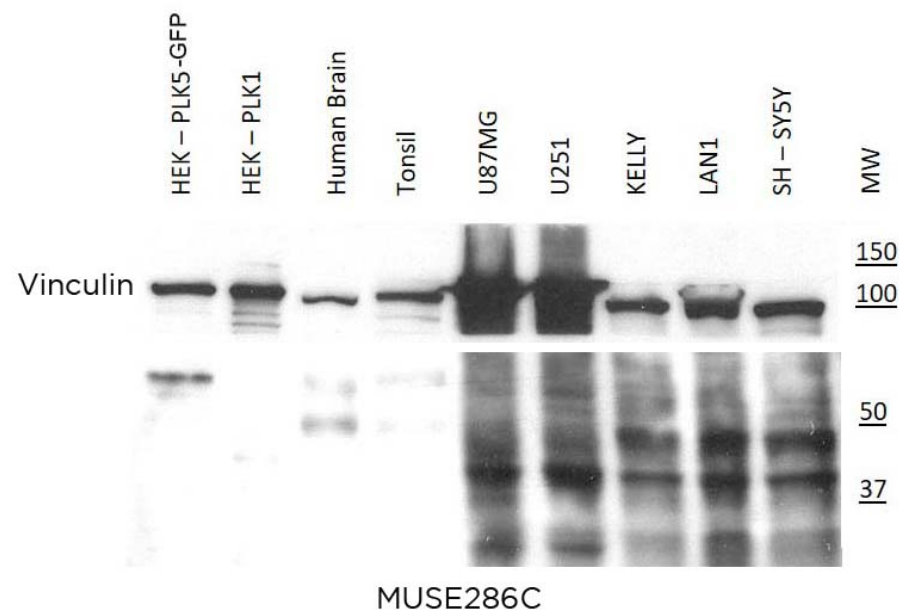
MUSE286C mAb is able to detect mouse and human PLK5 protein by WB.

DILUTION no dilution (neat supernatant).

Predicted molecular weight: **36kDa**
Observed molecular weight: **>37kDa**

LANES

Lane 1 HEK-PLK5-GFP	(15ug) (+)
Lane 2 HEK-PLK1	(15ug) (-)
Lane 3 Human brain	(100ug) (+)
Lane 4 Human tonsil	(100ug) (-)
Lane 5 U87MG cell line	(100ug) (+)
Lane 6 U251 cell line	(100ug) (+)
Lane 7 KELLY cell line	(100ug) (+)
Lane 8 LAN1 cell line	(100ug) (+)
Lane 9 SH-SY5Y cell line	(100ug) (+)



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

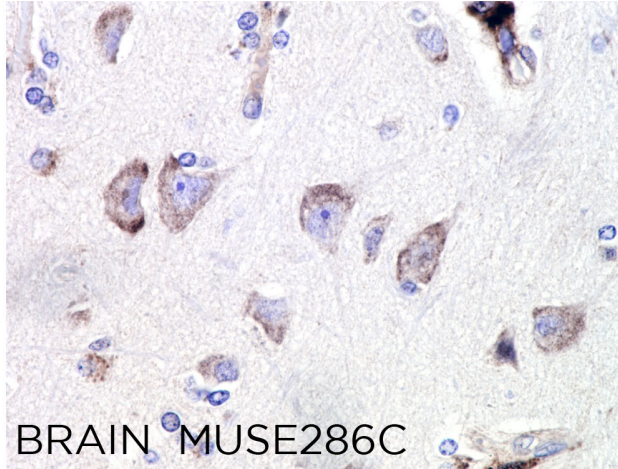
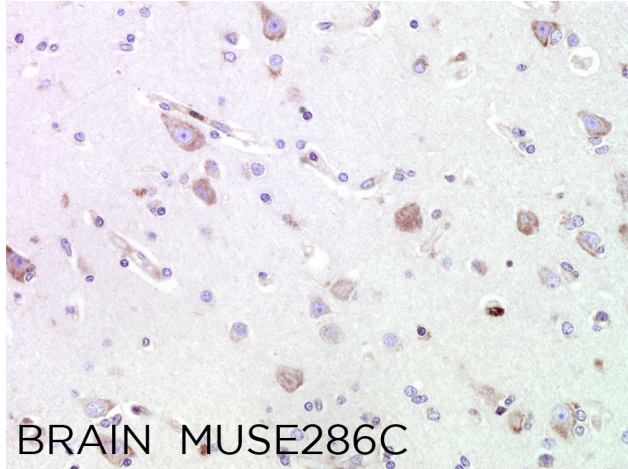
MUSE286C mAb can be used to detect PLK5 protein in human paraffin tissues

TISSUE SAMPLE Human brain

DILUTION neat supernatant

ANTIGEN RETRIEVAL Tris-EDTA

DETECTION SYSTEM Novolink kit (BondMax Leica)



● | IF | **Immunofluorescence (paraffin)** Not tested

● | IP | **Immunoprecipitation** Not tested

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

● | FC | **Flow cytometry** Not tested