

PLK5

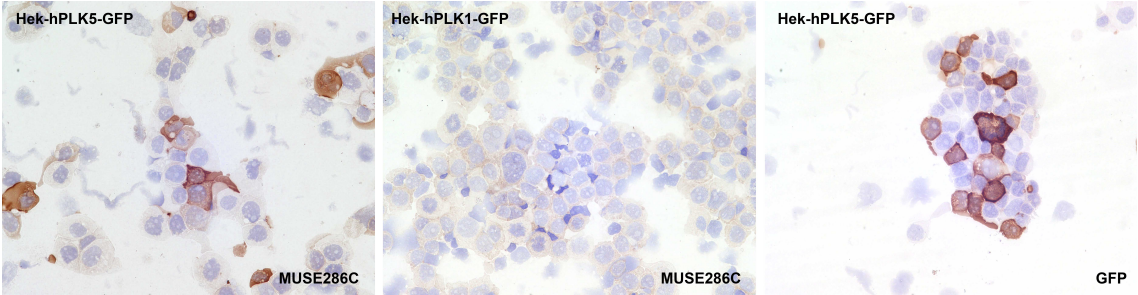
CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS: Validated
TYPE: mouse monoclonal
CLONE NAME: MUSE286C
PROTEIN: Inactive serine/threonine-protein kinase PLK5
PROTEIN WEB: <https://www.uniprot.org/uniprot/Q496M5>
ANTIGEN USED: HIS-GST-hPLK5 full length protein
FUSION PARTNER: NS1/Ag4-1 (NS1) cells
ISOTYPE: IgG1
SPECIES REACTIVITY: Human
PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

DESCRIPTION

Inactive serine/threonine-protein kinase that plays a role in cell cycle progression and neuronal differentiation.

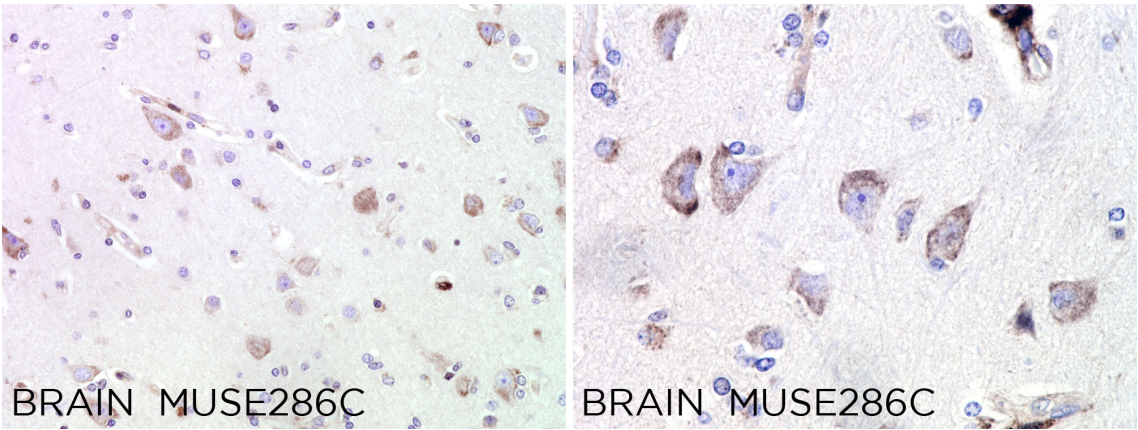
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopins									
Recommended	MUSE 286C	Neat	supernatant						
Paraffin tissue									
Recommended	MUSE 286C	Neat	supernatant						
Immunofluorescence									



MUSE286C mAb is able to detect human PLK5 protein in immunocytochemistry

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.

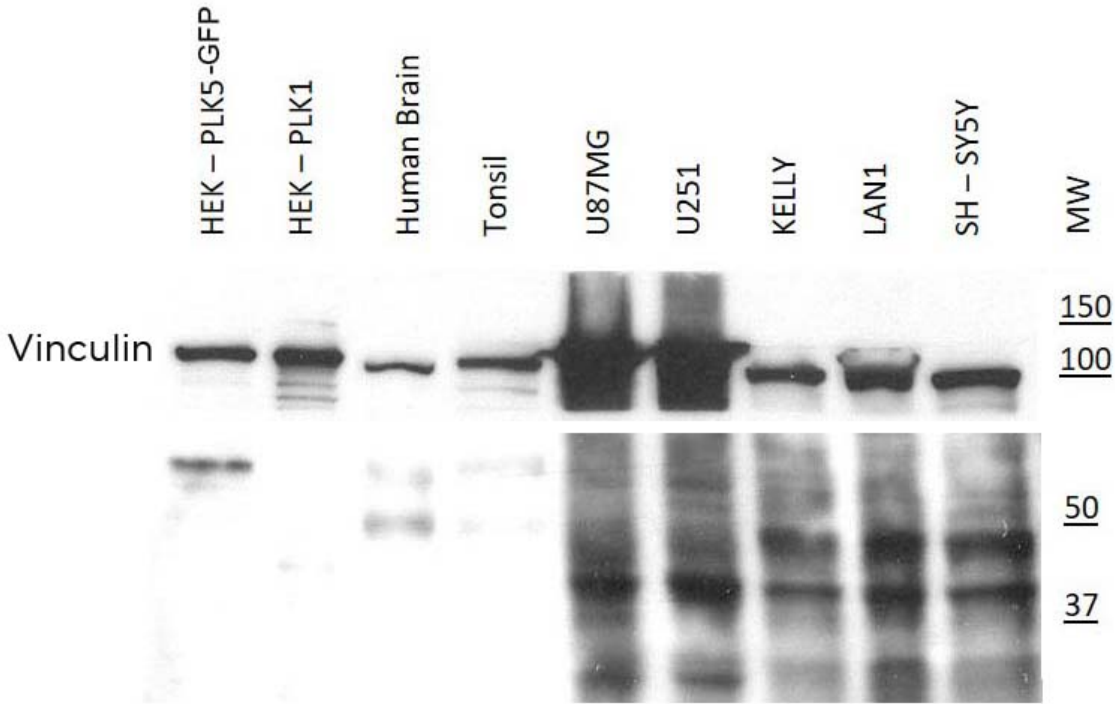


MUSE286C mAb can be used to detect PLK5 protein in human paraffin tissues

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

Recommended	MUSE28 6C	Neat	supernatant			36kDa	>37kDa	
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Immunoprecipitation



MUSE286C

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

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) (+)