

Plk1 (mouse specific) | Validation File

TARGET Plk1 (Polo like kinase 1)

CLONE NAME POE125A

DESCRIPTION Rat monoclonal

ANTIGEN USED HIS-hPlk1 full-length protein

ISOTYPE Unknown

SPECIES REACTIVITY human and mouse

LOCALIZATION nuclear

POSITIVE CONTROL mouse fetal liver

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

STORAGE Aliquot and store at 4C. Do not freeze



Recommended



Inconclusive



Not Recommended



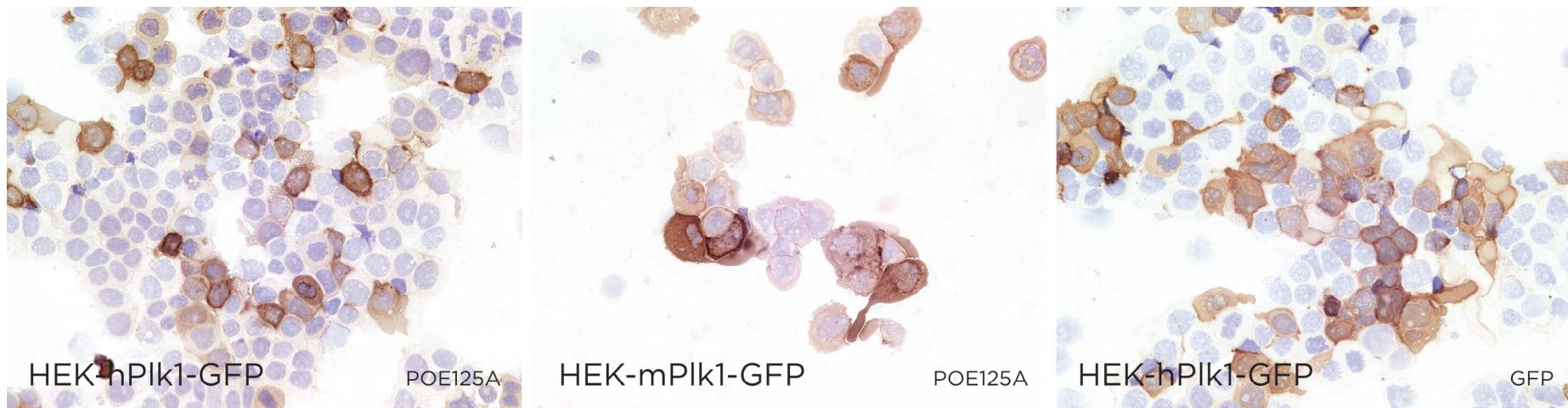
Not Tested

APPLICATIONS

ICC | Immunocytochemistry

POE125A is able to detect human and mouse Plk1 protein in immunocytochemistry

To confirm that POE125A mAb recognizes human and mouse PLK1 protein, immunocytochemistry on frozen cytocentrifuge preparations of GFP-tagged hPLK1 and mPLK1 expressed in HEK293T cell line was performed



| WB | ***Western Blotting***

POE125A mAb is able to detect mouse and human Plk1 protein by WB.

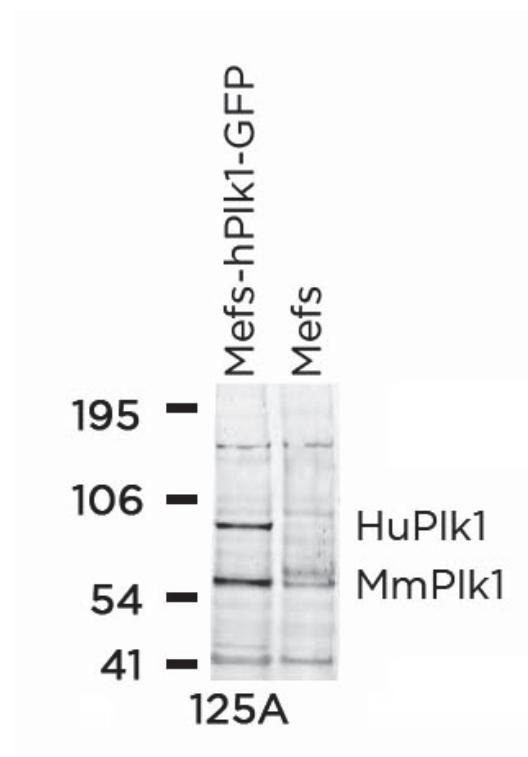
DILUTION neat supernatant

Predicted molecular weight: **67kDa**
Observed molecular weight: **67kDa**

LANES

Lane 1 Mefs-hPlk1-GFP (100ug) (+)
Lane 2 Mefs (100ug) (+)

mPlk1 endogenous expression in both lanes



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

POE125A mAb can be used to detect PLK1 protein in mouse paraffin tissues

TISSUE SAMPLE mouse neural tube, fetal intestine and fetal liver

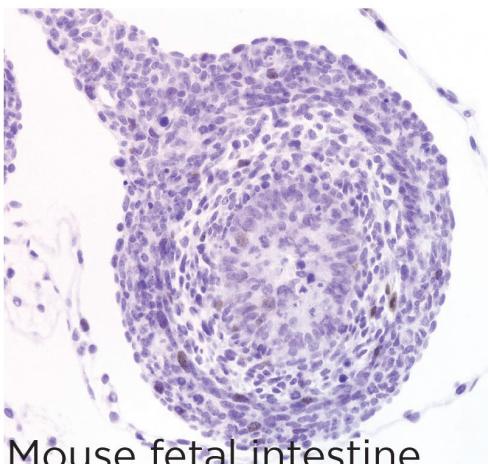
DILUTION neat supernatant

ANT. RETRIEVAL without heat CC1st 60 min RbaRtbio+OMNI RBB

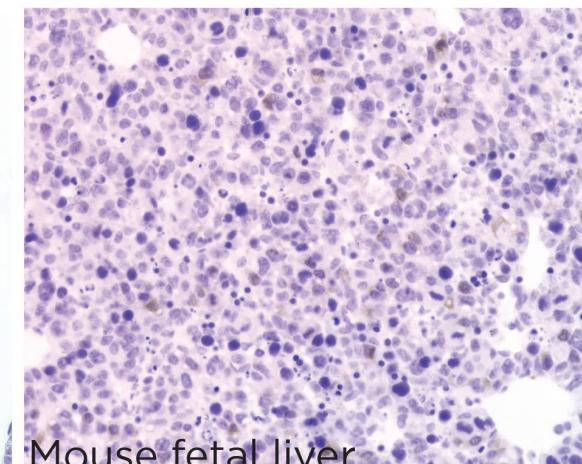
DETECTION SYSTEM Ventana



Mouse neural tube



Mouse fetal intestine



Mouse fetal liver

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

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

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

| IP | ***Immunoprecipitation*** Not Tested

REFERENCES

Wachowicz P, Fernández-Miranda G, Marugán C, Escobar B, de Cárcer G. Genetic depletion of Polo-like kinase 1 leads to embryonic lethality due to mitotic aberrancies. *Bioessays*. 2016 Jul;38 Suppl 1:S96-S106. doi: 10.1002/bies.201670908. PubMed PMID: 27417127.

Trakala M, Partida D, Salazar-Roa M, Maroto M, Wachowicz P, de Cárcer G, Malumbres M. Activation of the endomitotic spindle assembly checkpoint and thrombocytopenia in Plk1-deficient mice. *Blood*. 2015 Oct 1;126(14):1707-14. doi: 10.1182/blood-2015-03-634402. PubMed PMID: 26185128.