HES1 | Validation File

TARGET Hairy and Enhancer of split-1 (HES1)
CLONE NAME HS395A
DESCRIPTION Rat monoclonal
ANTIGEN USED HIS-mHES1 (aa93-aa282 fragment) protein
ISOTYPE IgG2b
SPECIES REACTIVITY mouse and human
LOCALIZATION nuclear
POSITIVE CONTROL mouse testicle
STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide
Purified Ab: PBS plus 1%BSA and 0.02% sodium azide. Concentration: 1mg/ml
STORAGE Aliquot and store at 4C. Do not freeze

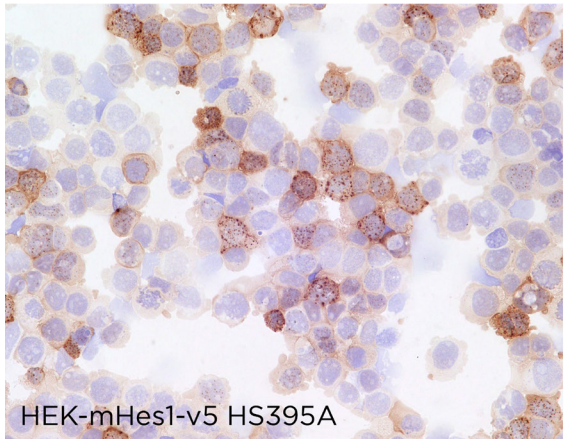
Recommended Inconclusive Not Recommended Not Tested

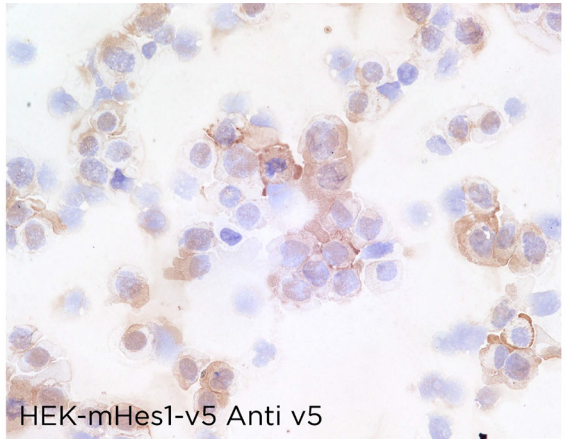
APPLICATIONS

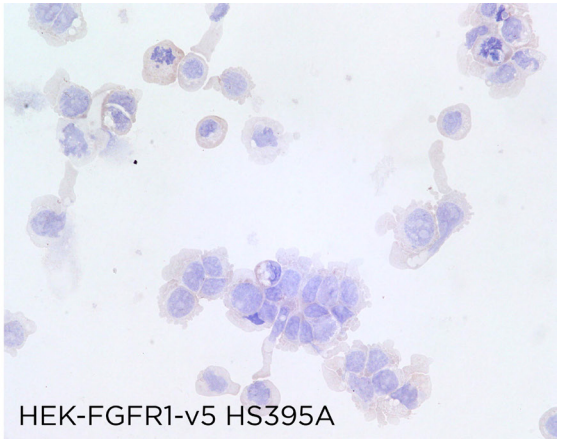
| ICC | **Immunocytochemistry**

HS395A is able to detect mouse Hes1 protein in immunocytochemistry

To confirm that HS395A mAb recognizes mouse HES1 protein, immunohistochemistry on frozen cytospins preparations of V5-tagged mHES1 expressed in HEK293T cell line was performed. Anti-V5 antibody was used as positive control. HEK-FGFR1-v5 vere used as a negative control.







| WB | **Western Blotting**

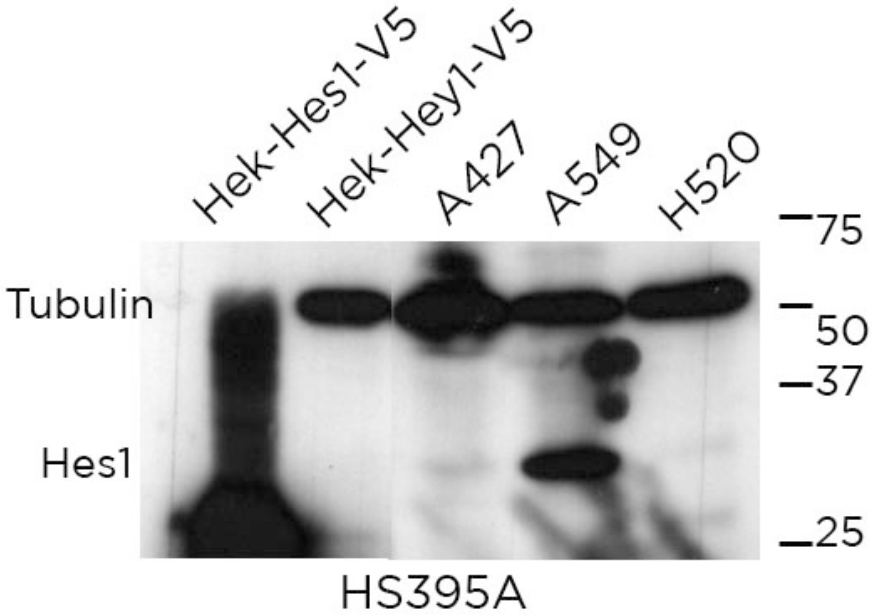
HS395AmAb is not recommended for the detection of Hes-1 protein by WB. Further validation experiments have to be done to confirm antibody specificity in this application.

DILUTION neat supernatant

Expected molecular weight: **29kDa**
Observed molecular weight: **29kDa**

LANES

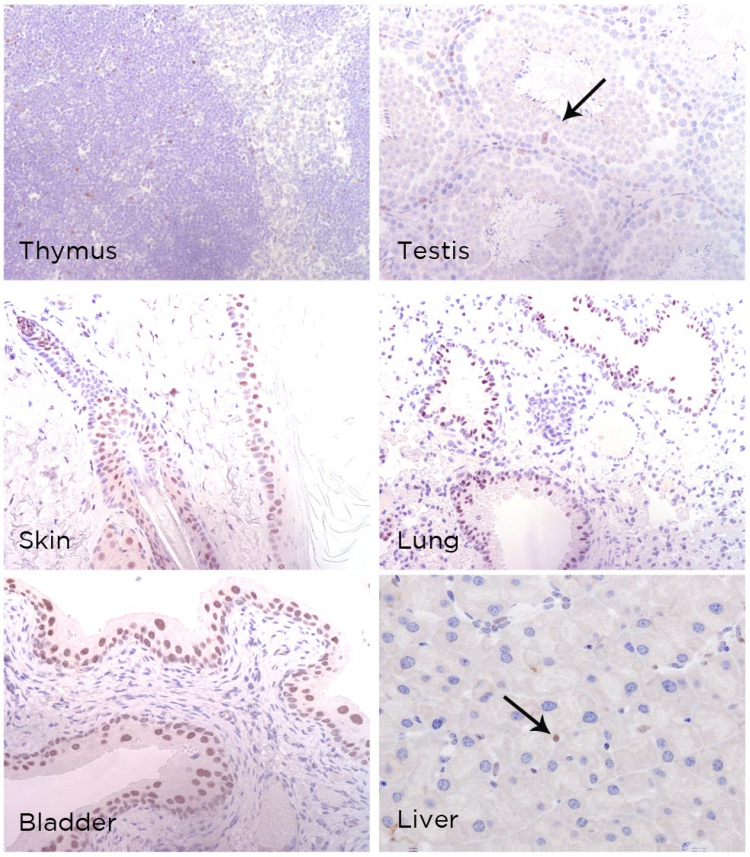
Lane 1 Hek-Hes1-V5	(20ug) (+)
Lane 2 Hek-Hey1-v5	(20ug) (-)
Lane 3 A427 human cell line	(150ug) (+)
Lane 4 A549 human cell line	(150ug) (+)
Lane 5 H520 human cell line	(150ug) (+)



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

HS395A mAb can be used to detect Hes1 protein in mouse paraffin tissues

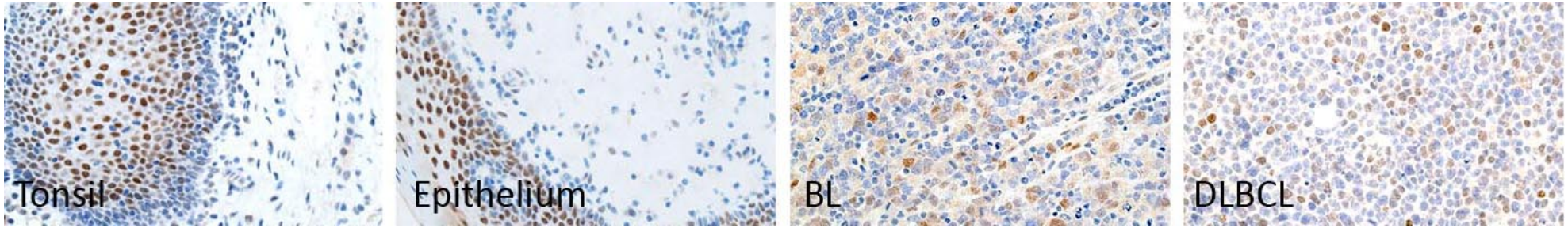
TISSUE SAMPLE mouse thymus, testis, skin, lung, bladder and liver
DILUTION 1:10 supernatant
1:100 purified antibody
ANT. RETRIEVAL 1 CC1m 48 min RbaRtBiot+OMNI RBB
DETECTION SYSTEM Ventana



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

HS395A mAb can be used to detect HES1 protein in human paraffin tissues

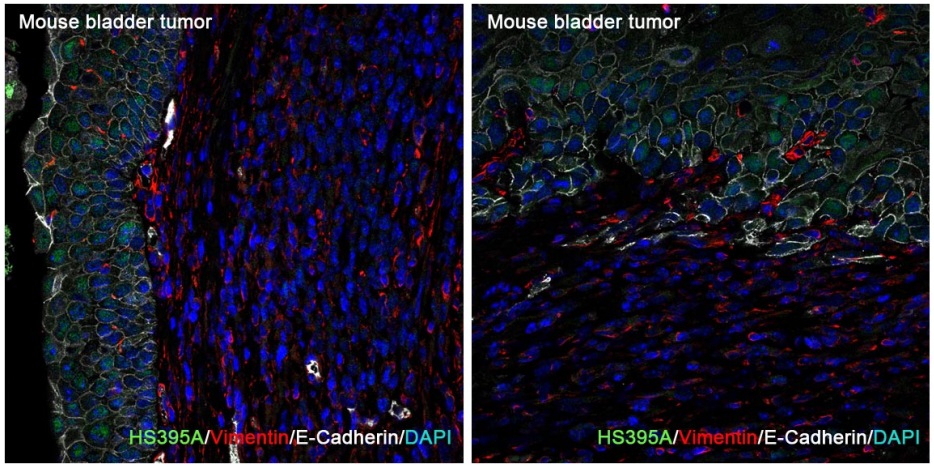
TISSUE SAMPLE human tonsil, epithelium, and lymphomas (DLBCL, Burkitt and MCL)
DILUTION 1:10 supernatant
1:100 purified antibody
ANT. RETRIEVAL 20min ER2
DETECTION SYSTEM Bond Max Leica



| IF | **Immunofluorescence (paraffin)**

HS395A mAb can be used to detect mouse Hes1 protein by immunofluorescence

TISSUE SAMPLE mouse bladder tumor
DILUTION 1:50 purified antibody (1mg/ml)
ANT. RETRIEVAL Tris/EDTA



| FC | **Flow Cytometry** Not Tested

| IP | **Immunoprecipitation** Not Tested

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

REFERENCES

Maraver A, Fernandez-Marcos PJ, Cash TP, Mendez-Pertuz M, Dueñas M, Maietta P, Martinelli P, Muñoz-Martin M, Martínez-Fernández M, Cañamero M, Roncador G, Martinez-Torrecuadrada JL, Grivas D, de la Pompa JL, Valencia A, Paramio JM, Real FX, Serrano M. NOTCH pathway inactivation promotes bladder cancer progression. J Clin Invest. 2015 Feb;125(2):824-30.