

Cas9 (S. Pyogenes) | Validation File

TARGET CAS9 S. Pyogenes

CLONE NAME KANI345B

DESCRIPTION rat monoclonal

ANTIGEN USED full length CAS9-His recombinant protein

ISOTYPE IgG2a

SPECIES REACTIVITY S. Pyogenes

LOCALIZATION membrane, nuclei and cytoplasm

POSITIVE CONTROL CAS9 positive tissue

STORAGE BUFFER Tissue culture supernatant: 0.02% sodium azide

Purified antibody: PBS plus 1%BSA and 0.02% sodium azide. MAb concentration: 1mg/ml

STORAGE Aliquot and store at 4C. Do not freeze



Recommended



Inconclusive



Not Recommended



Not Tested

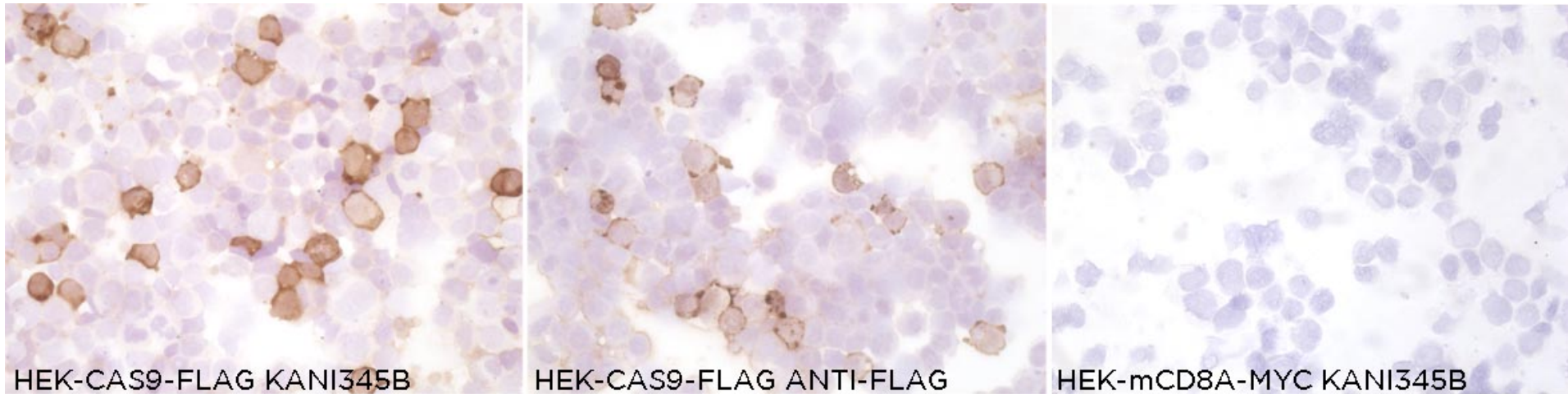
APPLICATIONS

● | ICC | Immunocytochemistry

KANI345B mAb is able to detect CAS9 protein in immunocytochemistry

DILUTION no dilution (neat supernatant)

To confirm that KANI345B mAb recognizes CAS9 protein, immunocytochemistry on frozen cytopins preparation of CAS9 expressed in HEK293 cells was performed. Anti-FLAG (SIGMA M2) Ab was used as a positive control. Cytopsin preparation of HEK-mCD8A was used as negative control.



● | WB | **Western Blotting**

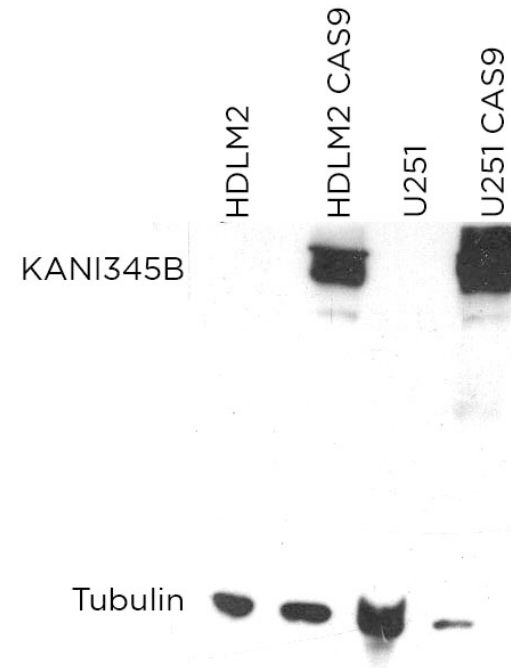
KANI345B mAb is able to detect CAS9 protein by WB.

DILUTION no dilution (neat supernatant)
1:200 purified antibody

Predicted molecular weight: **158kDa**
Observed molecular weight: **158kDa**

LANES

Lane 1 HDLM2 cell line (100ug) (-)
Lane 2 HDLM2-CAS9 cell line (100ug) (+)
Lane 3 U251 cell line (100ug) (-)
Lane 4 U251-CAS9 cell line (100ug) (+)



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

KANI345B mAb can be used to detect CAS9 protein in mouse paraffin tissues.

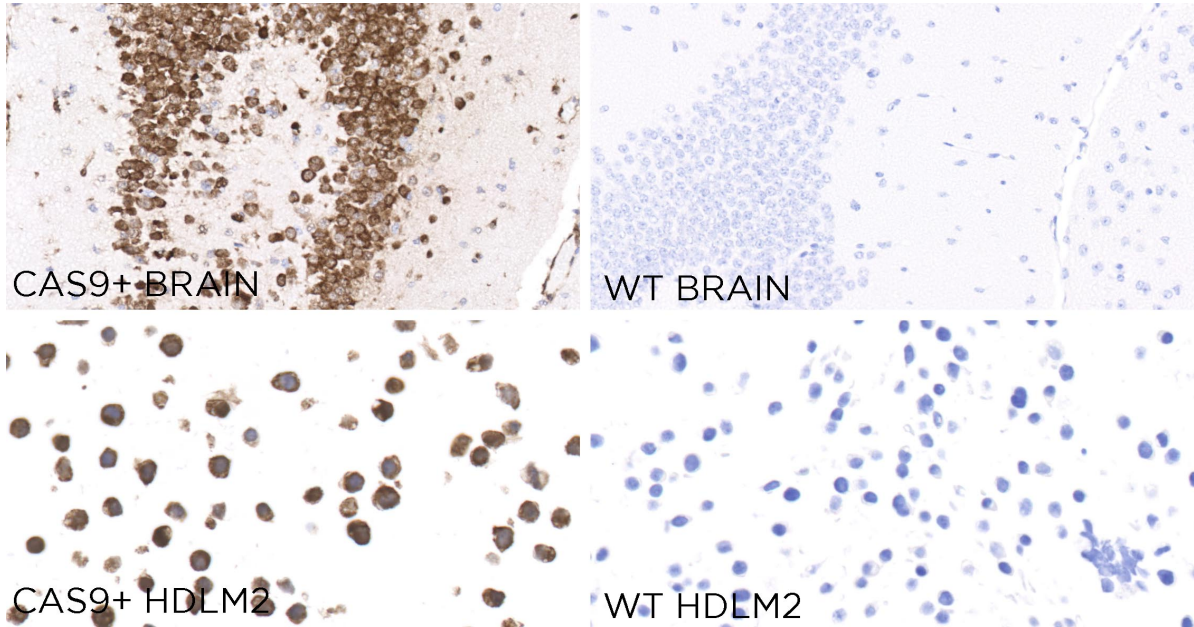
TISSUE SAMPLE Brain from the Rosa26-LSL-Cas9 (LSL-Cas9) knockin mouse and WT mouse brain. HDLM2 cell line (WT and CAS9+).

DILUTION no dilution (neat supernatant)

1:200 purified antibody

ANT. RETRIEVAL 20 minutes ER2 (Tris-EDTA)

DETECTION SYSTEM OminMap Standard RiboCC No Heat (Ventana)



● | IP | **Immunoprecipitation** No tested

● | IF | **Immunofluorescence (paraffin)** No tested

● | FC | **Flow Cytometry** No tested