β-gal | Validation File

TARGET β-Galactosidase

CLONE NAME 3A9A10F8

DESCRIPTION rat monoclonal

ANTIGEN USED Beta-gal-monomer-KLH protein

ISOTYPE IgG2b

SPECIES REACTIVITY E.Coli β-galactosidase

LOCALIZATION depending on the vector used

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**

3A9A10F8 mAb is able to detect β-Gal protein in immunocytochemistry.

To confirm that 3A9A10F8 mAb recognizes β-Gal protein, immunocytochemistry on frozen cytospins preparations of V5-β-Gal expressed in HEK293 was performed. Anti-β-Gal mAb from Cappel (cat n. 55976) was used as positive control. Cytospin preparation of PIM2 protein was used as a negative control.

HEK-BetaGAL-V5 3A9A10F8   HEK-BetaGAL-V5 Cappel mAb   HEK-Pim2-V5 3A9A10F8
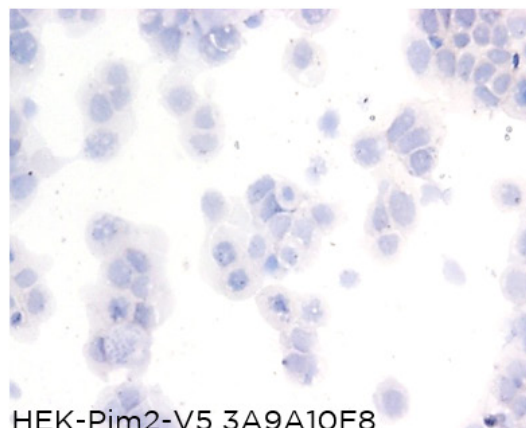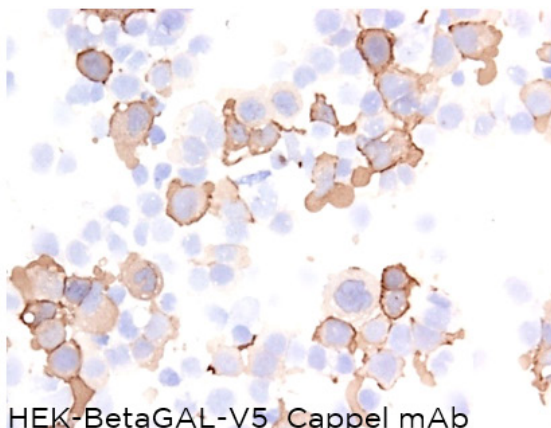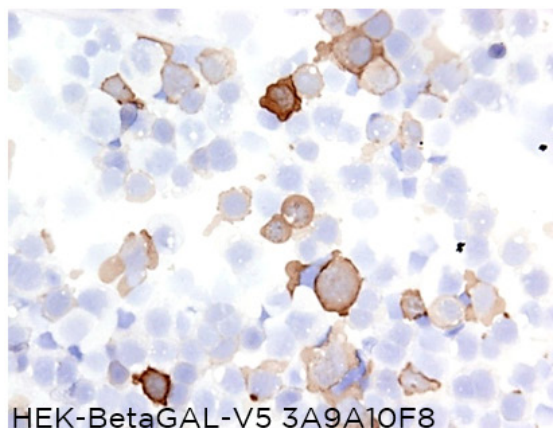
| WB | **Western Blotting**

3A9A10F8 mAb is able to detect over expression or endogenous β-Gal protein in mouse samples by WB.

DILUTION 3A9A10F8 no dilution (neat supernatant)
Cappel antibody 1:400

Predicted molecular weight: **110kDa**
Observed molecular weight: **110kDa**

LANES

Lane 1 Hek-GFP-CLASP2   (20ug) (-)
Lane 2 Hek-v5-Beta-gal   (20ug) (+)
Lane 3 R26.4 embryonic stem cells ROSA26^{lacZ} (100ug) (+)
Lane 4 V6.4 embryonic stem cells WT   (100ug) (-)

Anti-Beta-gal (Cappel)   Anti-Beta-gal (3A9A)
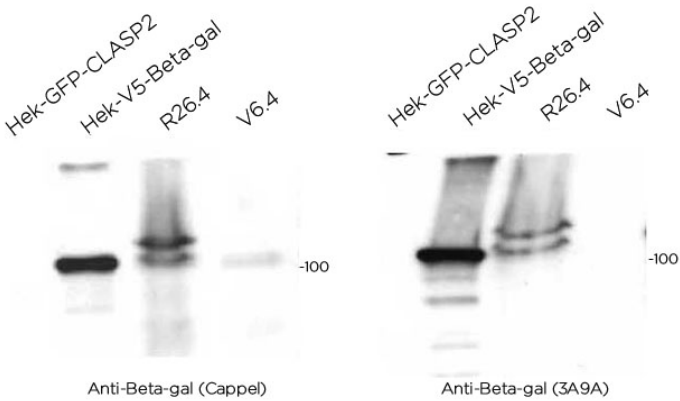
LANES

Lane 1 HEK-V5-BETA-GAL   (20ug) (+)
Lane 2 HEK-V5-BTLA   (20ug) (-)
Lane 3 mouse kidney AJO   (100ug) (+)
Lane 4 mouse kidney WT   (100ug) (-)
Lane 5 mouse brain AJO   (100ug) (+)
Lane 6 mouse brain WT   (100ug) (-)
Lane 7 mouse pancreas WT   (100ug) (-)
Lane 8 mouse pancreas K-RAS   (100ug) (+)
Lane 9 mouse lung WT   (100ug) (-)
Lane 10 mouse lung K-RAS   (100ug) (+)

3A9A10F8

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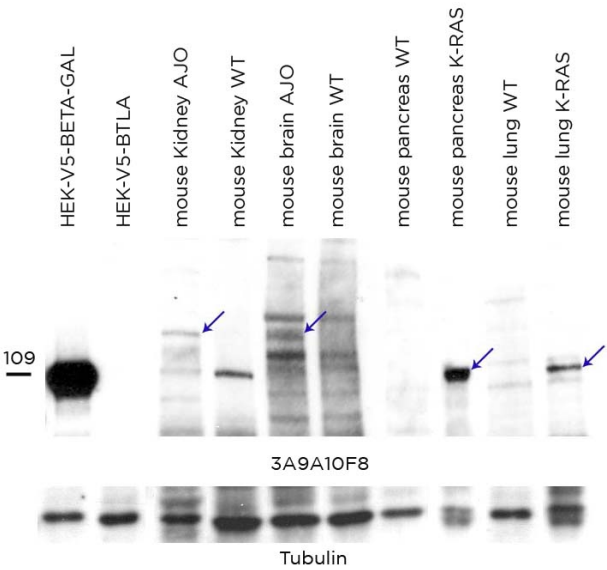
🟢 | M-IHC-P | **Immunohistochemistry (paraffin)**

3A9A10F8 antibody can be used to detect β-Gal over expression on mouse paraffin sections.

TISSUE SAMPLE XGAL chromogenic staining in a lung of a mouse expressing β-Gal driven by the K-Ras promoter (β-Gal expression can be observed in adenomatous lesions A-B-C-D). IHC of 3A9A10F8 mAb in Lung of a mouse expressing β-Gal driven by the K-Ras promoter (β-Gal expression can be observed in adenomatous lesions E, F, G and H).
DILUTION 1:3000 (purified antibody)
DETECTION SYSTEM Discovery Xt (Ventana) CC1 OmniMap
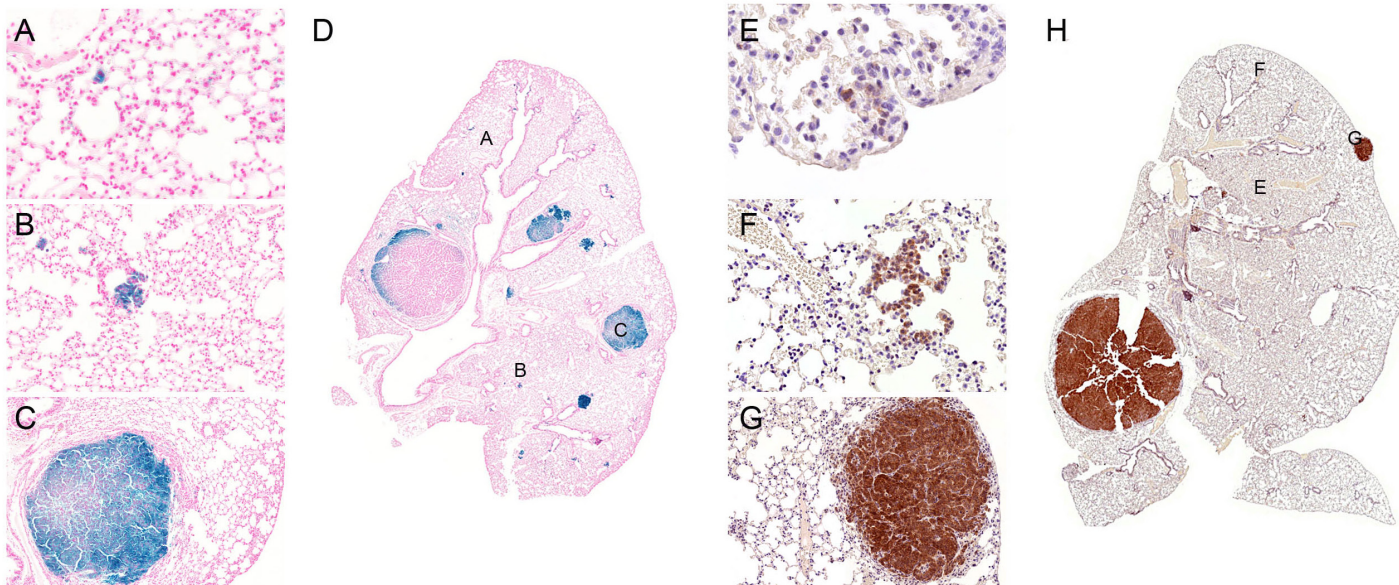
⚪| IF | **Immunofluorescence (paraffin)** Not tested

⚪| FC | **Flow Cytometry** Not tested

🔴| IHC-F | **Immunohistochemistry (frozen)** Not working

⚪| IP | **Immunoprecipitation** Not tested