SAP155 Rabbit monoclonal antibody

Catalog: MB66455 Host: Rabbit Reactivity: Human, Mouse, Rat, Hamster

BackGround:

Splicing factor 3b subunit 1 (SF3B1) is an integral component of the U2 small nuclear ribonucleoprotein (U2 snRNP) and plays an important role in the splicing of pre-mRNA that involves the removal of introns and the joining of exons to form mature mRNA. The assembly and proper recognition of splice sites are driven by sequences at the pre-mRNA intron-exon splice sites. The 5' splice donor site is recognized by the U1 snRNP complex, while U2 snRNP binds to the 3' splice site (branch point), ensuring the anchoring of the spliceosome machinery at the splice sites. Recent whole exome sequencing studies have demonstrated a high incidence of somatic mutations of SF3B1 in patients with various hematological malignancies such as chronic lymphocytic leukemia and myelodysplastic syndromes . Misregulation of pre-mRNA splicing arising from mutations of the spliceosome components such as SF3B1 is thought to contribute to changes in the expression patterns of key proteins that are involved in pathways such as cell cycle progression, cell death, and cancer metabolism.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 155 kDa

Swiss-Prot:

O75533

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/ICC (1/50 - 1/100)

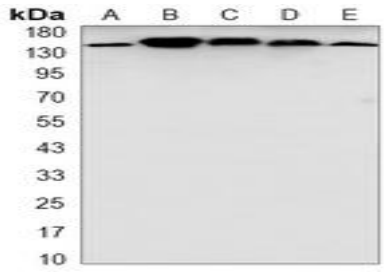
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

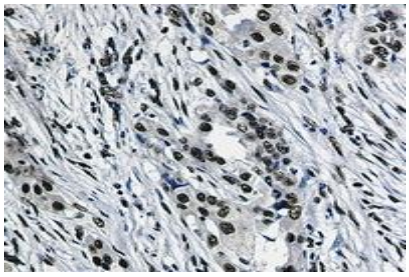
Specificity:

Recognizes endogenous levels of SAP155 protein.

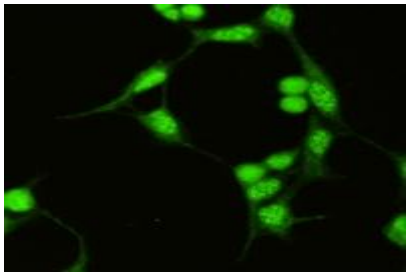
DATA:



Western blot analysis of SAP155 expression in Hela (A), CHOK1 (B), C6 (C), Ramos (D), NIH3T3 (E) whole cell lysates.



Immunohistochemical analysis of SAP155 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.99). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of SAP155 staining in HEK293 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS

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for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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