

## SAP 155 (Phospho Thr313) Rabbit pAb

CatalogNo: YP1485

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IHC

#### MW

- 145kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human SF3B1 (Thr313)

**Specificity** This antibody detects endogenous levels of Human Mouse SF3B1 (phospho-Thr313)

### Target Information

**Gene name** SF3B1 SAP155

**Protein Name** SF3B1 (Thr313)

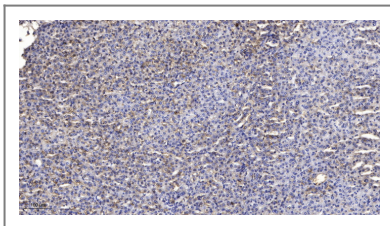
| Organism | Gene ID                 | UniProt ID               |
|----------|-------------------------|--------------------------|
| Human    | <a href="#">23451</a> ; | <a href="#">O75533</a> ; |
| Mouse    |                         | <a href="#">Q99NB9</a> ; |

**Cellular Localization** Nucleus . Nucleus speckle. During mitosis , transiently dispersed from the nuclear speckles to the cytoplasm.

**Tissue specificity** Brain ,Epithelium ,Pooled ,Testis ,Uterus ,

**Function** Function:Subunit of the splicing factor SF3B required for 'A' complex assembly formed by the stable binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. Sequence independent binding of SF3A/SF3B complex upstream of the branch site is essential , it may anchor U2 snRNP to the pre-mRNA. May also be involved in the assembly of the 'E' complex. Belongs also to the minor U12-dependent spliceosome , which is involved in the splicing of rare class of nuclear pre-mRNA intron. ,PTM:Phosphorylated. Phosphorylation occurs concomitantly with the splicing catalytic steps. Phosphorylation on Thr-244 , Thr-248 and Thr-313 by cyclin-dependent kinases promotes interaction with PPP1R8 during mitosis. ,similarity:Belongs to the SF3B1 family. ,similarity:Contains 11 HEAT repeats. ,subcellular location:During mitosis , transiently dispersed from the nuclear speckles to the cytoplasm. ,subunit:Identified in the spliceosome C complex , at least composed of AQR , ASCC3L1 , C19orf29 , CDC40 , CDC5L , CRNKL1 , DDX23 , DDX41 , DDX48 , DDX5 , DGCR14 , DHX35 , DHX38 , DHX8 , EFTUD2 , FRG1 , GPATC1 , HNRPA1 , HNRPA2B1 , HNRPA3 , HNRPC , HNRPF , HNRPH1 , HNRPK , HNRPM , HNRPR , HNRPU , KIAA1160 , KIAA1604 , LSM2 , LSM3 , MAGOH , MORG1 , PABPC1 , PLRG1 , PNN , PPIE , PPIL1 , PPIL3 , PPWD1 , PRPF19 , PRPF4B , PRPF6 , PRPF8 , RALY , RBM22 , RBM8A , RBMX , SART1 , SF3A1 , SF3A2 , SF3A3 , SF3B1 , SF3B2 , SF3B3 , SFRS1 , SKIV2L2 , SNRPA1 , SNRPB , SNRPB2 , SNRPD1 , SNRPD2 , SNRPD3 , SNRPE , SNRPF , SNRPG , SNW1 , SRRM1 , SRRM2 , SYF2 , SYNCRIP , TFIP11 , THOC4 , U2AF1 , WDR57 , XAB2 and ZCCHC8. Component of splicing factor SF3B which is composed of at least eight subunits; SF3B1/SAP155/SF3B155 , SF3B2/SAP145/SF3B155 , SF3B3/SAP130/SF3B130 , SF3B4/SAP49/SF3B49 , SF3B14A , PHF5A/SF3B14B , SF3B10 and SF3B125.Component of the B-WICH complex , at least composed of SMARCA5/SNF2H , BAZ1B/WSTF , SF3B1 , DEK , MYO1C , ERCC6 , MYBBP1A and DDX21. SF3B associates with the splicing factor SF3A and a 12S RNA unit to form the U2 small nuclear ribonucleoproteins complex (U2 snRNP) . SF3B1 interacts directly with the splicing factor U2AF. Phosphorylated form interacts with PPP1R8. ,

## Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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