888.267.4436
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Name:SF3A1 mouse monoclonal antibody,clone 2C4
Product Data Sheet - TRUEMAB

Catalog: TA800587

Components:
- SF3A1 mouse monoclonal antibody,clone 2C4 (TA800587)
- 1 vial of 20ug myc-DDK tagged SF3A1 HEK293T over-expression lysate lyophilized in RIPA buffer (LC416998). (Reconsitute into 20ul of 1x SDS sample buffer before loading; load 5ul per lane as WB control or as desired)

Amount: 100ul

Immunogen: Human recombinant protein fragment corresponding to amino acids 249-568 of human SF3A1 (NP_005868) produced in E.coli.

Host: Mouse

Isotype: IgG1

Species Reactivity: Human

Guaranteed Applications: WB, IHC

Suggested Dilutions: WB 1:2000, IHC 1:500,

Concentration: 1.00 mg/ml

Buffer: PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Purification: Purified from mouse ascites fluids by affinity chromatography

Storage Condition: Shipped at -20C. Upon delivery store at -20C. Dilute in PBS (pH7.3) if necessary.
Stable for 12 months from date of receipt.
Avoid repeated freeze-thaws.

Target

Target Name: Homo sapiens splicing factor 3a, subunit 1, 120kDa (SF3A1), transcript variant 1

Alternative Name: PRP21; PRPF21; SAP114; SF3A120

Database Link: NP_005868

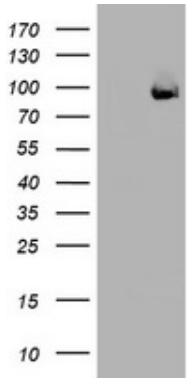
Function: This gene encodes subunit 1 of the splicing factor 3a protein complex. The splicing factor 3a heterotrimer includes subunits 1, 2 and 3 and is necessary for the in vitro conversion of 15S U2 snRNP into an active 17S particle that performs pre-mRNA splicing. Subunit 1 belongs to the SURP protein family; named for the SURP (also called SWAP or Suppressor-of-White-APricot) motifs that are thought to mediate RNA

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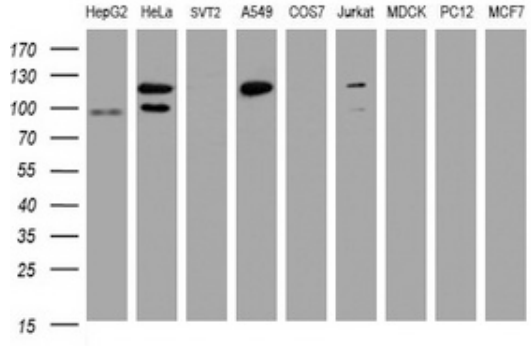
binding. Subunit 1 has tandemly repeated SURP motifs in its amino-terminal half while its carboxy-terminal half contains a proline-rich region and a ubiquitin-like domain. Binding studies with truncated subunit 1 derivatives demonstrated that the two SURP motifs are necessary for binding to subunit 3 while contacts with subunit 2 may occur through sequences carboxy-terminal to the SURP motifs. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008].

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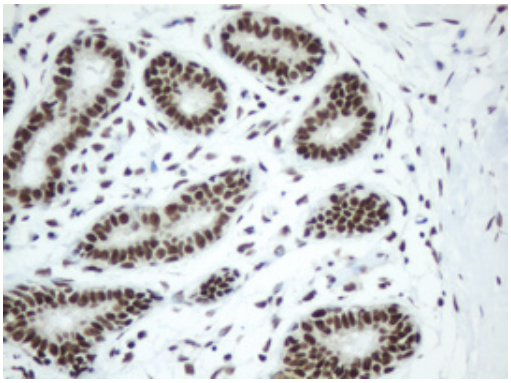
Validation Data



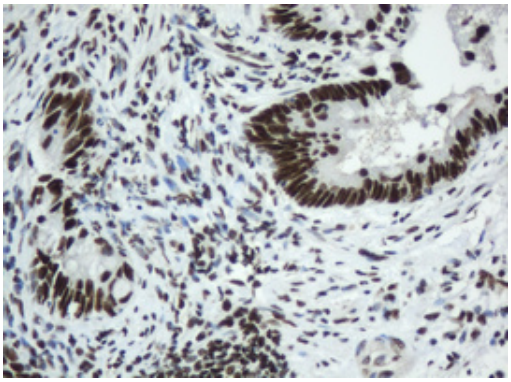
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SF3A1 (RC201098, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SF3A1.



Western blot analysis of extracts (35ug) from 9 different cell lines by usin g anti-SF3A1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



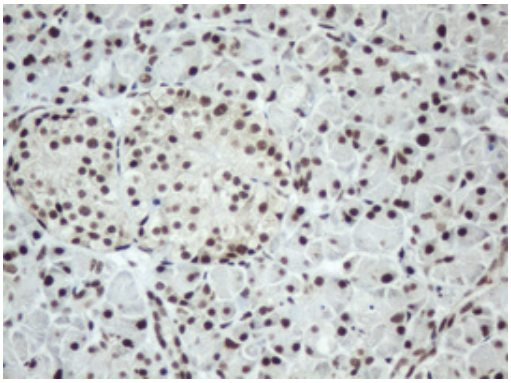
Immunohistochemical staining of paraffin-embedded Human breast tissue using anti-SF3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by Tris-EDTA, pH8.0, TA800587)



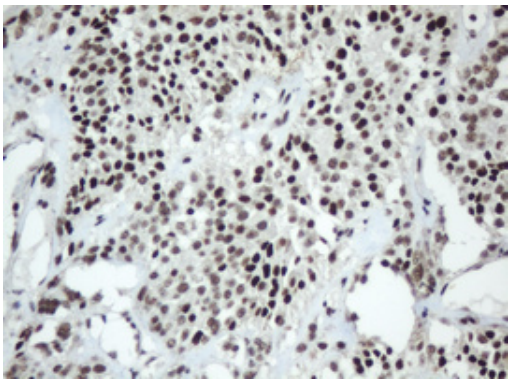
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-SF3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by Tris-EDTA, pH8.0, TA800587)

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Immunohistochemical staining of paraffin-embedded Human pancreas tissue using anti-SF3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by Tris-EDTA, pH8.0, TA800587)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-SF3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by Tris-EDTA, pH8.0, TA800587)

* More validation images may be available on our website: http://www.origene.com/antibody/TA800587.aspx

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