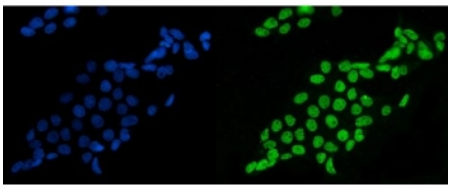
Splicing factor 1 Antibody / SF1 [clone 7D9E3] (RQ6729)

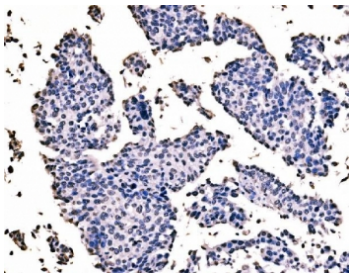
Catalog No.	Formulation	Size
RQ6729	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

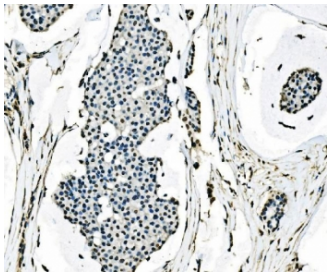
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	7D9E3
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q15637
Localization	Nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Splicing factor 1 antibody is available for research use only.



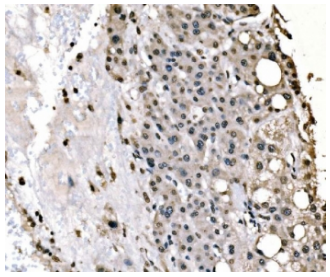
Immunofluorescent staining of FFPE human A431 cells with Splicing factor 1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



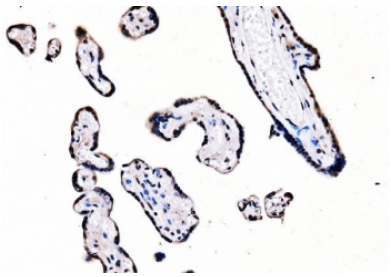
IHC staining of FFPE human bladder cancer tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



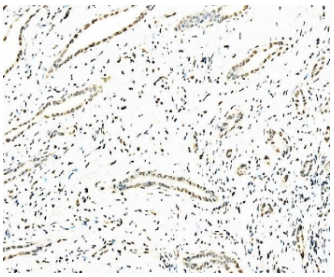
IHC staining of FFPE human breast cancer tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



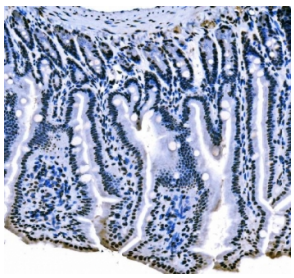
IHC staining of FFPE human liver cancer tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



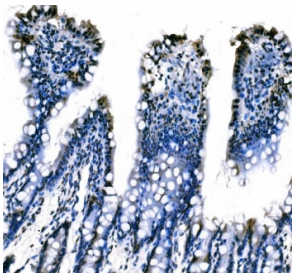
IHC staining of FFPE human placental tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



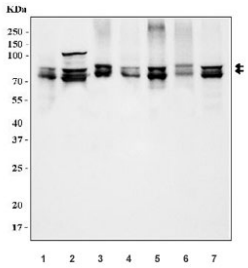
IHC staining of FFPE human squamous metaplasia of the renal pelvis tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



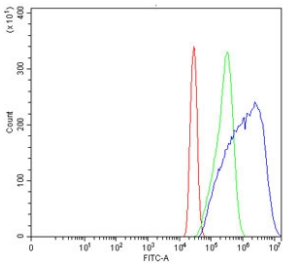
IHC staining of FFPE mouse colon tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



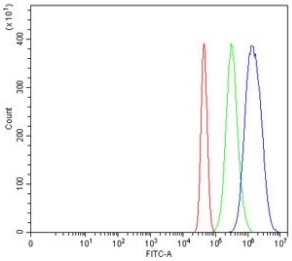
IHC staining of FFPE rat colon tissue with Splicing factor 1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



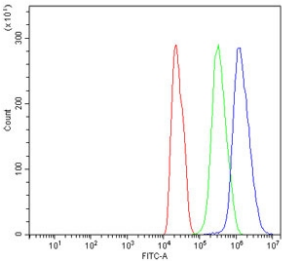
Western blot testing of 1) human SK-O-V3, 2) human K562, 3) human ThP-1, 4) human A549, 5) rat PC-12, 6) mouse ovary and 7) mouse NIH 3T3 cell lysate with Splicing factor 1 antibody. Predicted molecular weight ~68 kDa (multiple isoforms).



Flow cytometry testing of human A431 cells with Splicing factor 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Splicing factor 1 antibody.



Flow cytometry testing of mouse Neuro-2a cells with Splicing factor 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Splicing factor 1 antibody.



Flow cytometry testing of rat C6 cells with Splicing factor 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Splicing factor 1 antibody.

Description

Splicing factor 1 also known as zinc finger protein 162 (ZFM162) is a protein that in humans is encoded by the SF1 gene. This gene encodes a nuclear pre-mRNA splicing factor. The encoded protein specifically recognizes the intron branch point sequence at the 3' splice site, together with the large subunit of U2 auxiliary factor (U2AF), and is required for the early stages of spliceosome assembly. It also plays a role in nuclear pre-mRNA retention and transcriptional repression. The encoded protein contains an N-terminal U2AF ligand motif, a central hnRNP K homology motif and quaking 2 region which bind a key branch-site adenosine within the branch point sequence, a zinc knuckles domain, and a C-terminal proline-rich domain. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the Splicing factor 1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids R160-Q266) was used as the immunogen for the Splicing factor 1 antibody.

Storage

After reconstitution, the Splicing factor 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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