

**HTSF1 Antibody**  
Rabbit mAb  
Catalog # AP92560

## Specification

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### HTSF1 Antibody - Product Information

Application	WB, IHC, ICC, IP
Primary Accession	<a href="#">O43719</a>
Clonality	Monoclonal
<b>Other Names</b>	
HTATSF1; HTSF1; TAT SF1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	85853 Da

### HTSF1 Antibody - Additional Information

Purification	<b>Affinity-chromatography</b>
Immunogen	<b>A synthesized peptide derived from human HTSF1</b>
Description	<b>HIV TAT specific factor(a.k.a. HTATSF1, Tat-SF1 or HTSF1) is an 86 kDa general transcription factor that plays a role in the process of transcription elongation. However, in HIV-infected cells, this factor is up-regulated by HIV Nef and gp120 and acts as a co-factor for the Tat-enhanced transcription of the HIV virus.</b>
Storage Condition and Buffer	<b>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.</b>

### HTSF1 Antibody - Protein Information

**Name** HTATSF1 {ECO:0000303|PubMed:35597237, ECO:0000312|HGNC:HGNC:5276}

#### Function

Component of the 17S U2 SnRNP complex of the spliceosome, a large ribonucleoprotein complex that removes introns from transcribed pre-mRNAs (PubMed:<a href="http://www.uniprot.org/citations/30567737" target="\_blank">30567737</a>, PubMed:<a href="http://www.uniprot.org/citations/32494006" target="\_blank">32494006</a>, PubMed:<a href="http://www.uniprot.org/citations/34822310" target="\_blank">34822310</a>). The 17S U2 SnRNP complex (1) directly participates in early spliceosome assembly and (2) mediates recognition of the intron branch site during pre-mRNA splicing by promoting the selection of the pre-mRNA branch- site adenosine, the nucleophile for the first step of splicing (PubMed:<a href="http://www.uniprot.org/citations/30567737" target="\_blank">30567737</a>, PubMed:<a

[32494006](http://www.uniprot.org/citations/32494006), PubMed: [34822310](http://www.uniprot.org/citations/34822310)). Within the 17S U2 SnRNP complex, HTATSF1 is required to stabilize the branchpoint- interacting stem loop (PubMed: [34822310](http://www.uniprot.org/citations/34822310)). HTATSF1 is displaced from the 17S U2 SnRNP complex before the stable addition of the 17S U2 SnRNP complex to the spliceosome, destabilizing the branchpoint-interacting stem loop and allowing to probe intron branch site sequences (PubMed: [32494006](http://www.uniprot.org/citations/32494006), PubMed: [34822310](http://www.uniprot.org/citations/34822310)). Also acts as a regulator of transcriptional elongation, possibly by mediating the reciprocal stimulatory effect of splicing on transcriptional elongation (PubMed: [10454543](http://www.uniprot.org/citations/10454543), PubMed: [10913173](http://www.uniprot.org/citations/10913173), PubMed: [11780068](http://www.uniprot.org/citations/11780068)). Involved in double-strand break (DSB) repair via homologous recombination in S- phase by promoting the recruitment of TOPBP1 to DNA damage sites (PubMed: [35597237](http://www.uniprot.org/citations/35597237)). Mechanistically, HTATSF1 is (1) recruited to DNA damage sites in S-phase via interaction with poly-ADP-ribosylated RPA1 and (2) phosphorylated by CK2, promoting recruitment of TOPBP1, thereby facilitating RAD51 nucleofilaments formation and RPA displacement, followed by homologous recombination (PubMed: [35597237](http://www.uniprot.org/citations/35597237)).

#### Cellular Location

Nucleus. Chromosome Note=Recruited to DNA damage sites during S-phase following interaction with poly-ADP-ribosylated RPA1.

#### Tissue Location

Widely expressed..

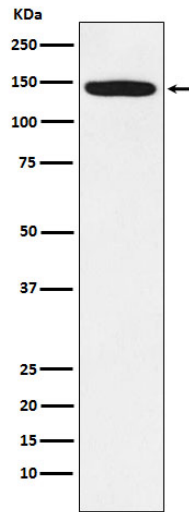
#### HTSF1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### HTSF1 Antibody - Images





Western blot analysis of HTSF1 expression in Jurkat cell lysate.