

## Anti-HTSF1 Rabbit Monoclonal Antibody Catalog # ABO15977

### Specification

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#### Anti-HTSF1 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	<a href="#">O43719</a>
Host	Rabbit
Isotype	IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-HTSF1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse.

#### Anti-HTSF1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 27336

#### Other Names

17S U2 SnRNP complex component HTATSF1, HIV Tat-specific factor 1, Tat-SF1, HTATSF1  
{ECO:0000303|PubMed:35597237, ECO:0000312|HGNC:HGNC:5276}

#### Calculated MW

140 kDa KDa

#### Application Details

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human HTSF1

#### Purification

Affinity-chromatography

#### Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-HTSF1 Rabbit Monoclonal 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 href="http://www.uniprot.org/citations/32494006" target="\_blank">32494006</a>, PubMed:<a href="http://www.uniprot.org/citations/34822310" target="\_blank">34822310</a>). Within the 17S U2 SnRNP complex, HTATSF1 is required to stabilize the branchpoint-interacting stem loop (PubMed:<a href="http://www.uniprot.org/citations/34822310" target="\_blank">34822310</a>). 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:<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>). Also acts as a regulator of transcriptional elongation, possibly by mediating the reciprocal stimulatory effect of splicing on transcriptional elongation (PubMed:<a href="http://www.uniprot.org/citations/10454543" target="\_blank">10454543</a>, PubMed:<a href="http://www.uniprot.org/citations/10913173" target="\_blank">10913173</a>, PubMed:<a href="http://www.uniprot.org/citations/11780068" target="\_blank">11780068</a>). Involved in double-strand break (DSB) repair via homologous recombination in S-phase by promoting the recruitment of TOPBP1 to DNA damage sites (PubMed:<a href="http://www.uniprot.org/citations/35597237" target="\_blank">35597237</a>). 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:<a href="http://www.uniprot.org/citations/35597237" target="\_blank">35597237</a>).

## Cellular Location

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

## Tissue Location

Widely expressed..

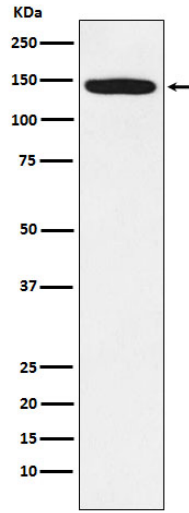
## Anti-HTSF1 Rabbit Monoclonal Antibody - Protocols

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

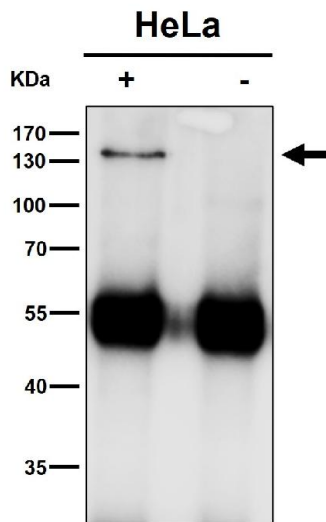
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-HTSF1 Rabbit Monoclonal Antibody - Images





Western blot analysis of HTSF1 expression in Jurkat cell lysate.



Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:3K dilution)