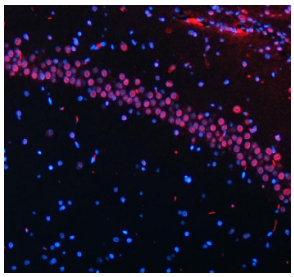
HTATSF1 Antibody / HIV Tat-specific factor 1 (FY12277)

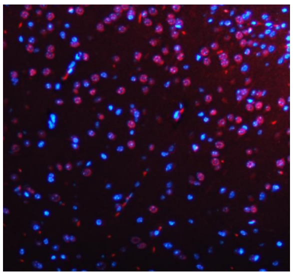
Catalog No.	Formulation	Size
FY12277	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O43719
Localization	Nuclear
Applications	ELISA : 0.1-0.5ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml Immunohistochemistry : 2-5ug/ml Western Blot : 0.25-0.5ug/ml
Limitations	This HTATSF1 antibody is available for research use only.



Immunofluorescent staining of FFPE rat brain tissue with HTATSF1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



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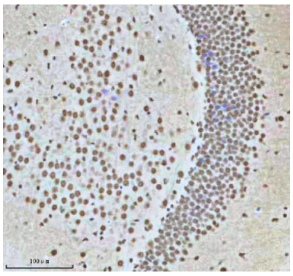
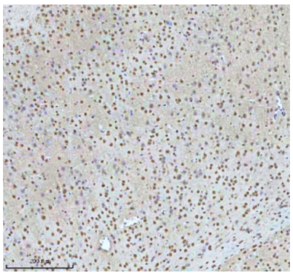


Immunohistochemical staining of HTATSF1 using anti-HTATSF1 antibody. HTATSF1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-HTATSF1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.



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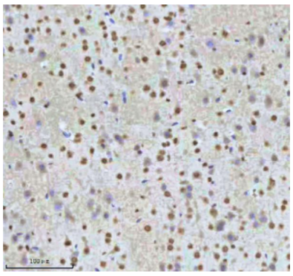

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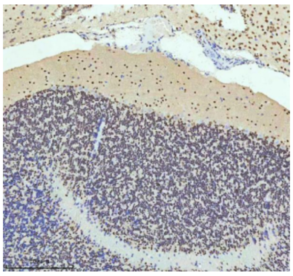
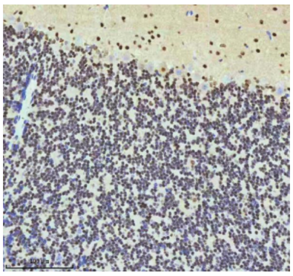


Immunohistochemical staining of HTATSF1 using anti-HTATSF1 antibody. HTATSF1 was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-HTATSF1 antibody overnight at 4oC. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37oC. The tissue section was developed using an HRP secondary and DAB substrate.



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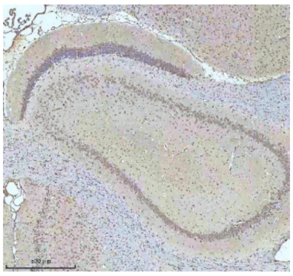

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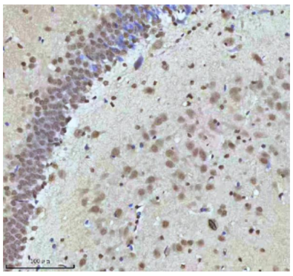

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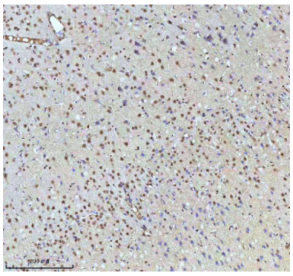

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Description

HTATSF1 antibody detects HIV Tat-specific factor 1, encoded by the HTATSF1 gene on chromosome 17q21.31. HTATSF1 antibody is commonly used in transcription biology, RNA processing, and viral research. HTATSF1 was originally identified as a cellular factor required for HIV-1 Tat-mediated transcriptional activation. It is now recognized as a general transcription elongation factor that associates with RNA polymerase II and influences RNA splicing, elongation, and processing.

Structurally, HTATSF1 is a nuclear protein containing RS-rich domains typical of splicing regulators, as well as multiple motifs for protein-protein and protein-RNA interactions. These domains allow HTATSF1 to associate with the transcription machinery and with spliceosomal components. Isoforms generated by alternative splicing may modulate transcriptional and splicing activities.

Functionally, HTATSF1 facilitates RNA polymerase II elongation by interacting with transcriptional elongation complexes and splicing factors. It coordinates co-transcriptional splicing, ensuring efficient coupling of RNA synthesis with processing. In the context of HIV infection, HTATSF1 enhances Tat-dependent transcriptional elongation, supporting viral replication. Researchers use HTATSF1 antibody to study transcription elongation, splicing regulation, and viral-host interactions.

Clinically, dysregulation of HTATSF1 has been implicated in cancer, where altered transcription elongation contributes to oncogenic gene expression. Because transcription elongation is critical for rapidly dividing cells, HTATSF1 is considered a potential therapeutic target. HTATSF1 also influences viral replication and could serve as a target for antiviral therapies. NSJ Bioreagents provides HTATSF1 antibody to support research in transcription biology, RNA processing, and infectious disease.

Experimentally, HTATSF1 antibody is used in western blotting to detect the protein, in immunohistochemistry to examine nuclear expression in tissues, and in chromatin immunoprecipitation to analyze transcriptional elongation complexes. Co-

immunoprecipitation with HTATSF1 antibody identifies interaction partners in the elongation and splicing machinery.

Application Notes

Optimal dilution of the HTATSF1 antibody should be determined by the researcher.

Immunogen

E.coli-derived human HTATSF1 recombinant protein (Position: H126-D333) was used as the immunogen for the HTATSF1 antibody.

Storage

After reconstitution, the HTATSF1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.