

# HTATIP2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14762a

## **Product Information**

Application	WB, IHC-P, E
Primary Accession	<u>Q9BUP3</u>
Other Accession	<u>Q9Z2G9, NP_001091991.1, NP_001091993.1, NP_001091992.1</u>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35013
Calculated MW	27049
Antigen Region	45-74

### **Additional Information**

Gene ID	10553
Other Names	Oxidoreductase HTATIP2, 111-, 30 kDa HIV-1 TAT-interacting protein, HIV-1 TAT-interactive protein 2, HTATIP2 ( <u>HGNC:16637</u> )
Target/Specificity	This HTATIP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-74 amino acids from the N-terminal region of human HTATIP2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HTATIP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Protein Information**

Name	HTATIP2 ( <u>HGNC:16637</u> )
Function	Represses translation by preventing reactivation of elongation factor eEF1A (By similarity). May also inhibit nuclear import by competing with nuclear

	import substrates for binding to a subset of nuclear transport receptors (PubMed: <u>15282309</u> ). Has additionally been proposed to act as a redox sensor involved in cellular oxidative stress surveillance (PubMed: <u>18519672</u> ).
Cellular Location	Cytoplasm.
Tissue Location	High levels in liver, lung, skeletal muscle, pancreas and placenta (PubMed:9174052). Moderate levels in heart and kidney (PubMed:9174052). Low levels in brain (PubMed:9174052). Not expressed or low levels in variant small cell lung carcinomas, 33% of hepatocellular carcinomas and neuroblastomas (PubMed:14695192). Levels are reduced in the heart of patients with hypertrophic cardiomyopathy and failing hearts (PubMed:31468715).

## Background

Oxidoreductase required for tumor suppression. NAPDH-bound form inhibits nuclear import by competing with nuclear import substrates for binding to a subset of nuclear transport receptors. May act as a redox sensor linked to transcription through regulation of nuclear import. Isoform 1 is a metastasis suppressor with proapoptotic as well as antiangiogenic properties. Isoform 2 has an antiapoptotic effect.

### References

Chen, X., et al. Dig. Dis. Sci. 55(8):2219-2226(2010) Fong, S., et al. BMC Cell Biol. 11, 23 (2010) : Nakahara, J., et al. Expert Opin. Ther. Targets 13(12):1375-1386(2009) Tong, X., et al. Am. J. Pathol. 174(5):1931-1939(2009) Nakahara, J., et al. J. Clin. Invest. 119(1):169-181(2009)

#### Images



HTATIP2 Antibody (N-term) (Cat. #AP14762a) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the HTATIP2 antibody detected the HTATIP2 protein (arrow).

#### HTATIP2 Antibody (N-term)

(AP14762a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of HTATIP2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

• A low serum Tat-interacting protein 30 level is a diagnostic and prognostic biomarker for hepatocellular carcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.