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HTATIP2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14762a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BUP3
Other Accession	Q9Z2G9, NP_001091991.1, NP_001091993.1, NP_001091992.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
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 (HGNC:16637)
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 (HGNC:16637)
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:15282309). Has additionally been proposed to act as a redox sensor involved in cellular oxidative stress surveillance (PubMed:18519672).
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).

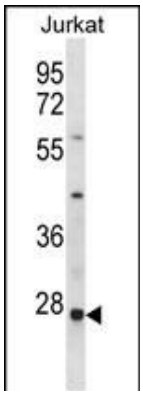
Background

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.

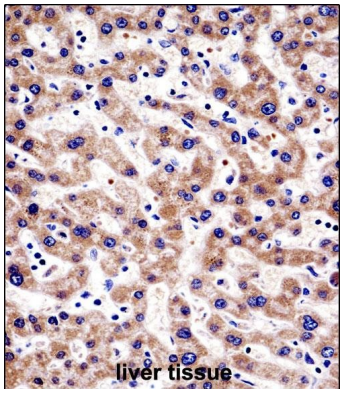
References

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'.