

UAP56 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	49	Rabbit	#Q13838	7919

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

UAP56 Antibody recognizes endogenous levels of total UAP56 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly24 of human UAP56 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The *UAP56* gene is found in the central MHC region and encodes a member of the DEAD-box family of RNA helicases (1). Also known as DDX39B and BAT1, UAP56 functions as an ATP-dependent splicing factor and RNA helicase in the evolutionary conserved transcription/export (TREX) complex. The TREX complex is recruited to sites of active transcription, where it travels along the length of the gene with RNA polymerase II and exports resulting mRNAs to the cytoplasm (2-8). Both UAP56 and its paralog DDX39A are hijacked by various viral replication machineries to enable viral reproduction and mRNA export (9-11). UAP56 and DDX39A have also been implicated in promoting the AR-V7 splice variant in advanced prostate cancers (12).

Background References

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2. Fleckner, J. et al. (1997) *Genes Dev* 11, 1864-72.
3. Strässer, K. et al. (2002) *Nature* 417, 304-8.
4. Custódio, N. et al. (2004) *RNA* 10, 622-33.
5. Kapadia, F. et al. (2006) *Gene* 384, 37-44.
6. Shen, J. et al. (2007) *J Biol Chem* 282, 22544-50.
7. Kota, K.P. et al. (2008) *J Cell Sci* 121, 1526-37.
8. Majerciak, V. et al. (2010) *Virology* 407, 206-12.
9. Dufu, K. et al. (2010) *Genes Dev* 24, 2043-53.
10. Zielke, B. et al. (2011) *J Virol* 85, 1804-19.
11. Wisskirchen, C. et al. (2011) *J Virol* 85, 8646-55.
12. Nakata, D. et al. (2017) *Biochem Biophys Res Commun* 483, 271-276.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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