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JTV1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2861c

Product Information

Application	WB, E
Primary Accession	Q13155
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB17662
Calculated MW	35349
Antigen Region	156-184

Additional Information

Gene ID	7965
Other Names	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2, Multisynthase complex auxiliary component p38, Protein JTV-1, AIMP2, JTV1
Target/Specificity	This JTV1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-184 amino acids from the Central region of human JTV1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	JTV1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AIMP2
Synonyms	JTV1
Function	Required for assembly and stability of the aminoacyl-tRNA synthase complex (PubMed:19131329). Mediates ubiquitination and degradation of

FUBP1, a transcriptional activator of MYC, leading to MYC down-regulation which is required for aveolar type II cell differentiation. Blocks MDM2-mediated ubiquitination and degradation of p53/TP53. Functions as a proapoptotic factor.

Cellular Location

Cytoplasm, cytosol. Nucleus {ECO:0000250|UniProtKB:Q8R010}. Note=Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus. {ECO:0000250|UniProtKB:Q8R010}

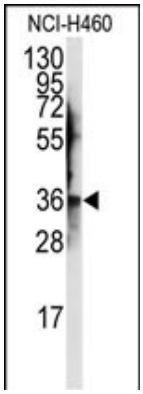
Background

JTV1 is probable core protein of the multisynthetase complex that serves as a template for the assembly of the supramolecular structure. This protein Mediates ubiquitination of FUBP1 and its degradation by the proteasome.

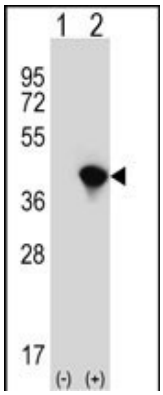
References

Nicolaides N.C., Kinzler K.W., Vogelstein B.Genomics 29:329-334(1995)
Kim M.J., Park B.-J., Kang Y.-S., Kim H.J., Park J.-H., Kang J.W., Lee S.W.,
Nat. Genet. 34:330-336(2003)

Images



Western blot analysis of anti-JTV1 Antibody (Center) (Cat.#AP2861c) in NCI-H460 cell line lysates (35ug/lane).JTV1(arrow) was detected using the purified Pab.



Western blot analysis of JTV1 (arrow) using rabbit polyclonal JTV1 Antibody (Center) (Cat.#AP2861c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the JTV1 gene.