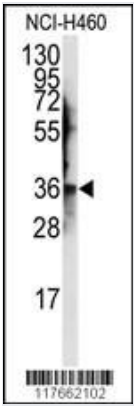
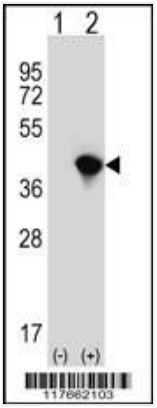
JTV1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	JTV1, Polyclonal Antibody
Full Product Name	JTV1, ID (Aminoacyl tRNA Synthase Complex-interacting Multifunctional Protein 2, Multisynthetase Complex Auxiliary Component p38, Protein JTV-1, PRO0992) (MaxLight 750)
Product Gene Name	anti-JTV1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human JTV1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	Predicted: 35 kDa Observed: 36 kDa
OMIM	600859
3D Structure	ModBase 3D Structure for Q13155
Immunogen	Synthetic peptide selected from the center region of human JTV1 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-JTV1 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-JTV1 antibody	Western Blot (WB), FLISA
Application Notes for anti-JTV1 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-JTV1 antibody	MBS6483841 is an antibody targeting JTV1. Also known as JTV1, ID (Aminoacyl tRNA Synthase Complex-interacting Multifunctional Protein 2, Multisynthetase Complex Auxiliary Component p38, Protein JTV-1, PRO0992) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-JTV1 antibody	1. Nicolaides N.C., Kinzler K.W., Vogelstein B.Genomics 29:329-334(1995). 2. 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).
Other Notes	Small volumes of anti-JTV1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



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



Western Blot (WB) of anti-JTV1 antibody
Western blot analysis of JTV1 (arrow) using rabbit polyclonal JTV1 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the JTV1 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for JTV1. It may not necessarily be applicable to this product.

NCBI GI #	11125770
NCBI GeneID	7965
NCBI Accession #	NP_006294
UniProt Primary Accession #	Q13155
UniProt Secondary Accession #	Q75MR1; Q96CZ5; Q9P1L2
UniProt Related Accession #	Q13155
GenBank Nucleotide #	NM_006303.3
NCBI Official Full Name	aminoacyl tRNA synthase complex-interacting multifunctional protein 2
NCBI Official Synonym Full Names	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2
NCBI Official Symbol	AIMP2
NCBI Official Synonym Symbols	P38; JTV1; JTV-1; PRO0992
UniProt Protein Name	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2
UniProt Synonym Protein Names	Multisynthase complex auxiliary component p38; Protein JTV-1
UniProt Gene Name	AIMP2
UniProt Synonym Gene Names	JTV1
UniProt Entry Name	AIMP2_HUMAN
NCBI Protein Information	aminoacyl tRNA synthase complex-interacting multifunctional protein 2; protein JTV-1; ARS-interacting multi-functional protein 2; multisynthase complex auxiliary component p38; multisynthetase complex auxiliary component p38
NCBI Summary for JTV1	The JTV1 gene is located on chromosome 7p22 flanked by two genes, HRI and PMS2. JTV1 and HRI overlap slightly and are arranged in a tail-to-tail fashion. JTV1 and PMS2 are separated by approximately 200 base pairs and are arranged head-to-head. JTV1 is transcribed in the opposite direction compared to HRI and PMS2. The function of the JTV1 gene product is unknown. [provided by RefSeq, Jul 2008]

UniProt Comments for JTV1	JTV1: Required for assembly and stability of the aminoacyl- tRNA synthase complex. 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. Chromosomal Location of Human Ortholog: 7p22 Cellular Component: membrane; nucleus; cytosol Molecular Function: protein binding Biological Process: negative regulation of cell proliferation; tRNA aminoacylation for protein translation; positive regulation of protein ubiquitination; apoptosis; gene expression
Research Articles on JTV1	**1.** These findings suggested that, although excessive accumulation of oxidative DNA damage was present in LSCs, the relatively decreased phosphorylation of p38 might help leukemic cells escape senescence and apoptosis.
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