Rabbit JTV1 Polyclonal Antibody | anti-JTV1 antibody

JTV1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322875	**Rabbit**	**Human, Mouse, Rat**	**Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

JTV1; Polyclonal Antibody; JTV1 Antibody; Aimp2; AIMP2_HUMAN; Aminoacyl tRNA synthase complex-interacting multifunctional protein 2; Aminoacyl tRNA synthetase complex interacting multifunctional protein 2; ARS interacting multi functional protein 2; JTV 1; JTV 1 protein; JTV1 gene; Multisynthase complex auxiliary component p38; Multisynthetase complex auxiliary component p38; P38; PRO0992; Protein JTV 1; Protein JTV-1; tRNA SYNTHETASE COFACTOR p38; anti-JTV1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	JTV1 antibody detects endogenous levels of JTV1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	320
Applicable Applications for anti-JTV1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human JTV1.
Subcellular Location	Cytoplasm > Cytosol. Nucleus. Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus.
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog**
Similarity	Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

WB (Western Blot)
Western blot analysis of extracts of K-562 cells, using JTV1 antibody.

IHC (Immunohistochemistry)
AAA322875 at 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-JTV1 antibody	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. Subunit Structure: Part of a multisubunit complex that groups tRNA ligases for Arg (RARS), Asp (DARS), Gln (QARS), Ile (IARS), Leu (LARS), Lys (KARS), Met (MARS) the bifunctional ligase for Glu and Pro (EPRS) and the auxiliary subunits AIMP1/p43, AIMP2/p38 and EEF1E1/p18 (PubMed:19131329, PubMed:19289464). Interacts (via N-terminus) with KARS (PubMed:9878398, PubMed:15220430, PubMed:18029264, PubMed:23159739, PubMed:26074468). Interacts with EPRS (PubMed:26472928). Forms a linear complex that contains MARS, EEF1E1, EPRS and AIMP2 that is at the core of the multisubunit complex (PubMed:26472928). Binds FUBP1 (via C-terminus). Interacts in both its unphosphorylated and phosphorylated forms with p53/TP53 (via N-terminus) in the nucleus following UV irradiation. Interacts (via N-terminus) with PRKN/parkin (via first RING-type domain) (PubMed:16135753). Post-translational Modifications: Phosphorylated on serine residues in response to UV irradiation. Ubiquitinated by PRKN, leading to its degradation by the proteasome. Mutant PRKN fails to ubiquitinate AIMP2 efficiently, allowing its accumulation which may contribute to neurodegeneration associated with Parkinson disease.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11125770
NCBI GeneID	7965
NCBI Accession #	NP_006294.2
NCBI GenBank Nucleotide #	NM_006303.3
UniProt Accession #	Q13155; Q75MR1; Q96CZ5; Q9P1L2
Molecular Weight	Observed: 36 kDa Predicted: 36 kDa
NCBI Official Full Name	aminoacyl tRNA synthase complex-interacting multifunctional protein 2 isoform a
NCBI Official Synonym Full Names	aminoacyl tRNA synthetase complex interacting multifunctional protein 2
NCBI Official Symbol	AIMP2
NCBI Official Synonym Symbols	P38; JTV1; HLD17; JTV-1
NCBI Protein Information	aminoacyl tRNA synthase complex-interacting multifunctional protein 2
UniProt Protein Name	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2
UniProt Gene Name	**AIMP2**
UniProt Synonym Gene Names	JTV1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.