



## Rabbit Anti-AIMP2 antibody

SL2509R

<b>Product Name:</b>	AIMP2
<b>Chinese Name:</b>	AIMP2抗体
<b>Alias:</b>	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2; Aimp2; AA407136; AA407225; Aimp2(p38); JTV 1 protein; Jtv1; MGC30261; MGC36346; MGC36522; MGC37389; ARS interacting multi functional protein 2; Multisynthetase complex auxiliary component p38; P38; tRNA SYNTHETASE COFACTOR p38; PRO0992; Protein JTV 1; JTV-1; JTV1; P38; PRO0992; AIMP2_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	36kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human AIMP2:201-300/320
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	P38 is a probable core protein of the multisynthetase complex that serves as a template for the assembly of the supramolecular structure. Mediates ubiquitination of FUBP1 and its degradation by the proteasome. P38 is also a cofactor of multi-ARS complex and also

a substrate of parkin in neuronal cell.

**Function:**

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 alveolar type II cell differentiation. Blocks MDM2-mediated ubiquitination and degradation of p53/TP53. Functions as a proapoptotic factor.

**Subunit:**

Component of the aminoacyl-tRNA synthase complex which is comprised of a bifunctional glutamyl-prolyl-tRNA synthase, the onospecific isoleucyl, leucyl, glutaminyl, methionyl, lysyl, arginyl and aspartyl-tRNA synthases, and three auxiliary proteins, EF1E1/p18, AIMP2/p38 and AIMP1/p43. 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 KARS and PARK2/parkin via first RING-type domain).

**Subcellular Location:**

Cytoplasm, cytosol (By similarity). Nucleus (By similarity). Note=Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus (By similarity).

**Post-translational modifications:**

Phosphorylated on serine residues in response to UV irradiation (By similarity). Ubiquitinated by PARK2, leading to its degradation by the proteasome. Mutant PARK2 fails to ubiquitinate AIMP2 efficiently, allowing its accumulation which may contribute to neurodegeneration associated with Parkinson disease.

**Similarity:**

Contains 1 GST C-terminal domain.

**SWISS:**

Q13155

**Gene ID:**

7965

**Database links:**

[Entrez Gene: 7965](#)Human

[Entrez Gene: 231872](#)Mouse

[Entrez Gene: 288480](#)Rat

[Omim: 600859](#)Human

[SwissProt: Q13155](#)Human

[SwissProt: Q8R010](#)Mouse

[SwissProt: Q32PX2](#)Rat

[Unigene: 301613](#)Human

[Unigene: 728827](#)Human

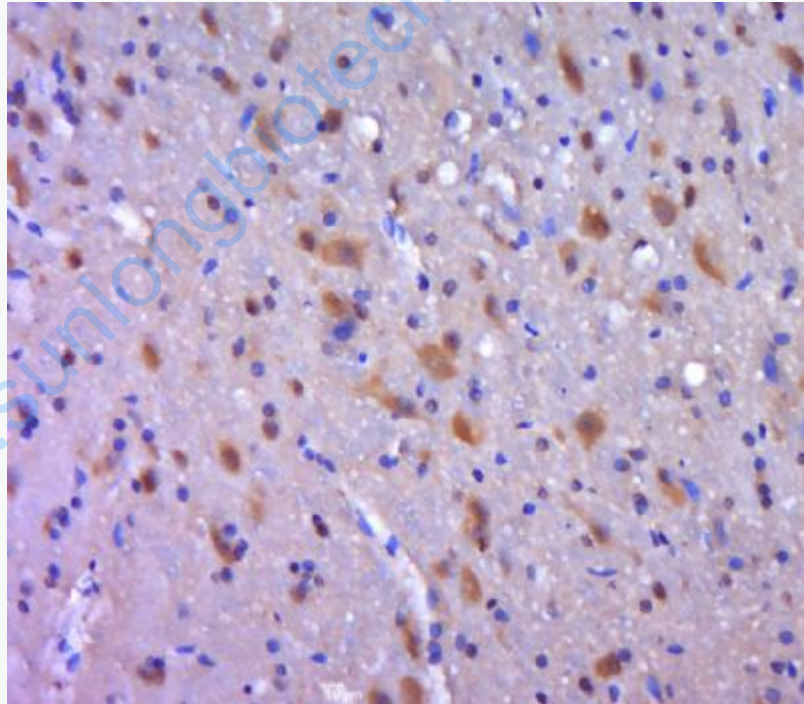
[Unigene: 200499](#)Mouse

[Unigene: 162097](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (AIMP2) Polyclonal Antibody, Unconjugated

	(SL2509R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.
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