

ARG42926 anti-AIMP2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes AIMP2
Tested Reactivity	Hu, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	AIMP2
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 298-320 of Human AIMP2. (NVQRWMRSCENLAPFNTALKLLK)
Conjugation	Un-conjugated
Alternate Names	PRO0992; JTV-1; JTV1; P38; Protein JTV-1; Multisynthase complex auxiliary component p38; Aminoacyl tRNA synthase complex-interacting multifunctional protein 2

Application Instructions

Application table	Application	Dilution
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 36 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Thimerosal, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Thimerosal and 0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

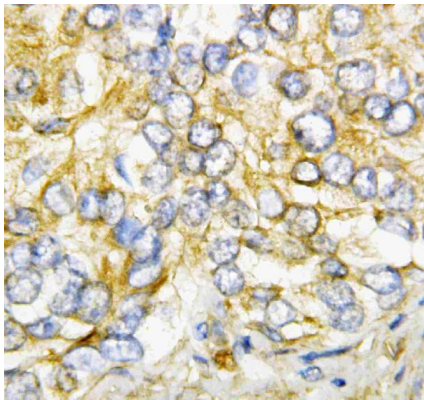
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

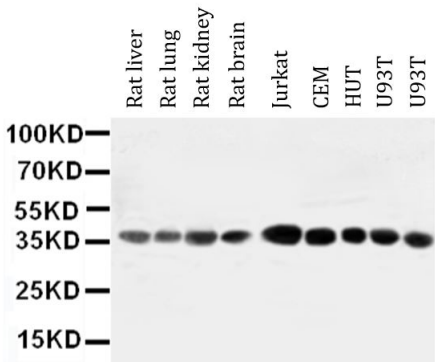
Gene Symbol	AIMP2
Gene Full Name	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2
Background	The protein encoded by this gene is part of the aminoacyl-tRNA synthetase complex, which contains nine different aminoacyl-tRNA synthetases and three non-enzymatic factors. The encoded protein is one of the non-enzymatic factors and is required for assembly and stability of the complex. [provided by RefSeq, May 2016]
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. [UniProt]
Calculated Mw	35 kDa
PTM	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. [UniProt]
Cellular Localization	Cytoplasm, cytosol. Nucleus. Note=Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus. [UniProt]

Images



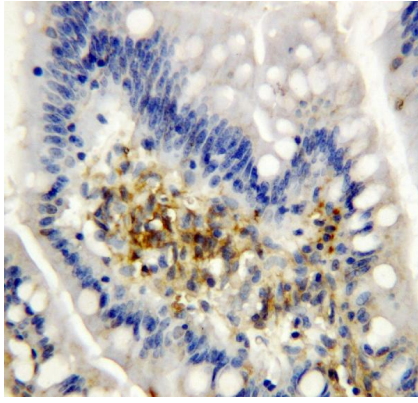
ARG42926 anti-AIMP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42926 anti-AIMP2 antibody at 1 µg/ml dilution, overnight at 4°C.



ARG42926 anti-AIMP2 antibody WB image

Western blot: 50 µg of sample under reducing conditions. Rat liver, Rat lung, Rat kidney, Rat brain, Jurkat, CEM, HUT and U93T cell lysates stained with ARG42926 anti-AIMP2 antibody at 0.5 µg/ml dilution, overnight at 4°C.



ARG42926 anti-AIMP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat intestine tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG42926 anti-AIMP2 antibody at 1 µg/ml dilution, overnight at 4°C.