

Anti-AIMP2/p38 Antibody

Catalog # ABO10800

Product Information

Application	WB, IHC-P
Primary Accession	Q13155
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Aminoacyl tRNA synthase complex-interacting multifunctional protein 2(AIMP2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	35349
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm, cytosol . Nucleus . Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus. .
Source	Eukaryota
Protein Name	Aminoacyl tRNA synthase complex-interacting multifunctional protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human AIMP2/p38(298-320aa NVQRWMRSCENLAPFNTALKLLK), different from the related rat and mouse sequences by three amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 GST C-terminal domain.

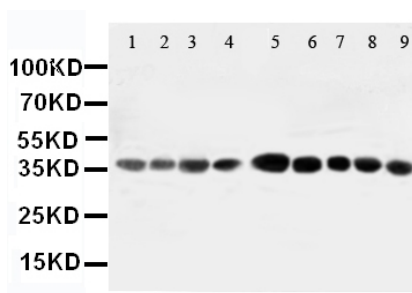
Protein Information

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 alveolar 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

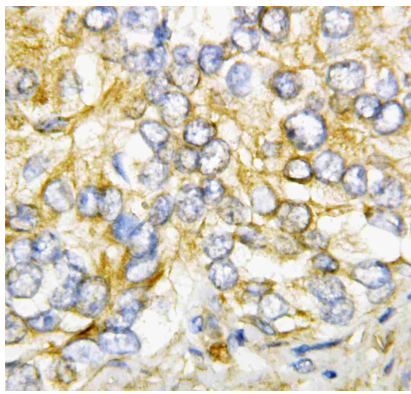
AIMP2, Aminoacyl tRNA synthetase complex-interacting multifunctional protein 2, also known as AIMP2, is an enzyme that in humans is encoded by the AIMP2 gene. AIMP2 encodes a predicted 312-amino acid protein. The AIMP2 gene is located on chromosome 7p22 flanked by two genes, HRI and PMS2. AIMP2 and HRI overlap slightly and are arranged in a tail-to-tail fashion. AIMP2 and PMS2 are separated by approximately 200 base pairs and are arranged head-to-head. AIMP2 is transcribed in the opposite direction compared to HRI and PMS2. AIMP2 is a scaffold required for the assembly and stability of the multi-tRNA synthetase complex. AIMP2 can work as a mediator of TGF-beta signaling and its functional importance in the control of MYC during lung differentiation.

Images



Anti-AIMP2/p38 antibody, ABO10800, Western blotting
 Lane 1: Rat Liver Tissue Lysate
 Lane 2: Rat Lung Tissue Lysate
 Lane 3: Rat Kidney Tissue Lysate
 Lane 4: Rat Brain Tissue Lysate
 Lane 5: Marker
 Lane 6: JURKAT Cell Lysate
 Lane 7: CEM Cell Lysate
 Lane 8: HUT Cell Lysate
 Lane 9: U937 Cell Lysate
 Lane 10: U937 Cell Lysate

Anti-AIMP2/p38 antibody, ABO10800, IHC(P)
 Human Rectal Cancer Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.