

Anti-AIMP2/p38 Antibody

Catalog # ABO10800

Specification

Anti-AIMP2/p38 Antibody - Product Information

Application **WB, IHC**
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.

Anti-AIMP2/p38 Antibody - 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 MW KDa

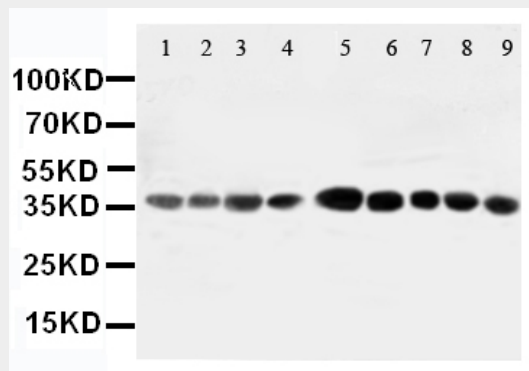
Application Details

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

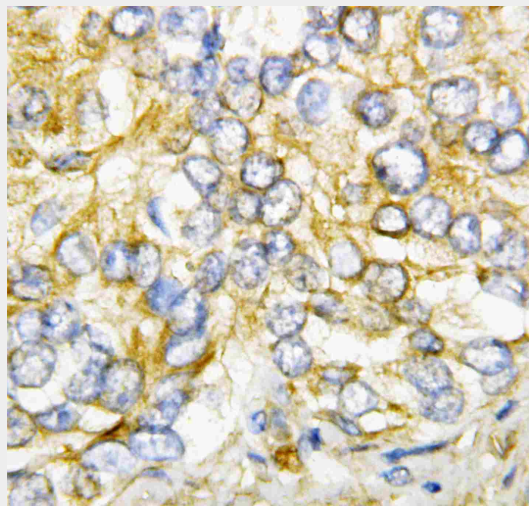
Subcellular Localization

Cytoplasm, cytosol . Nucleus . Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus. .

Protein Name



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: U93T Cell Lysate
Lane 10: U93T Cell Lysate



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

Anti-AIMP2/p38 Antibody - 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

Aminoacyl tRNA synthase
complex-interacting multifunctional protein
2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl,
0.2mg Na₂HPO₄, 0.05mg Thimerosal,
0.05mg NaN₃.

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.

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.

Anti-AIMP2/p38 Antibody - Protein Information

Name AIMP2

Synonyms JTV1

Function

Required for assembly and stability of the
aminoacyl-tRNA synthase complex
(PubMed:<a href="http://www.uniprot.org/c
itations/19131329"
target="_blank">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}

Anti-AIMP2/p38 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)