

Datasheet for ABIN3044411
anti-AIMP2 antibody (Middle Region)[2 Images](#)[3 Publications](#)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	AIMP2
Binding Specificity:	AA 298-320, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Aminoacyl tRNA synthase complex-interacting multifunctional protein 2(AIMP2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Sequence:	NVQRWMRSCENLAPFNTALKLLK
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: mouse</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Aminoacyl tRNA synthase complex-interacting

Product Details

multifunctional protein 2(AIMP2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.

Gene Name: aminoacyl tRNA synthetase complex-interacting multifunctional protein 2

Protein Name: Aminoacyl tRNA synthase complex-interacting multifunctional protein 2

Purification: Immunogen affinity purified.

Target Details

Target: AIMP2

Alternative Name: AIMP2 ([AIMP2 Products](#))

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.

Synonyms: Aimp2 antibody|AIMP2_HUMAN antibody|Aminoacyl tRNA synthase complex-interacting multifunctional protein 2 antibody|Aminoacyl tRNA synthetase complex interacting multifunctional protein 2 antibody|ARS interacting multi functional protein 2 antibody|JTV 1 antibody|JTV 1 protein antibody|JTV1 antibody|Multisynthase complex auxiliary component p38 antibody|Multisynthetase complex auxiliary component p38 antibody|P38 antibody|PRO0992 antibody|Protein JTV 1 antibody|Protein JTV-1 antibody|tRNA SYNTHETASE COFACTOR p38 antibody

UniProt: [Q13155](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be

Application Details

fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

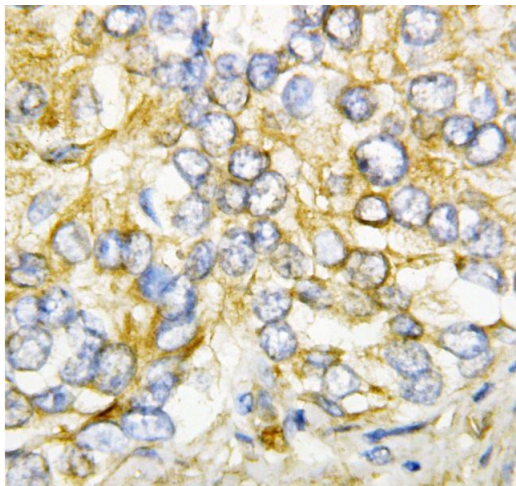
Storage: 4 °C/-20 °C

Storage Comment: 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.

Expiry Date: 12 months

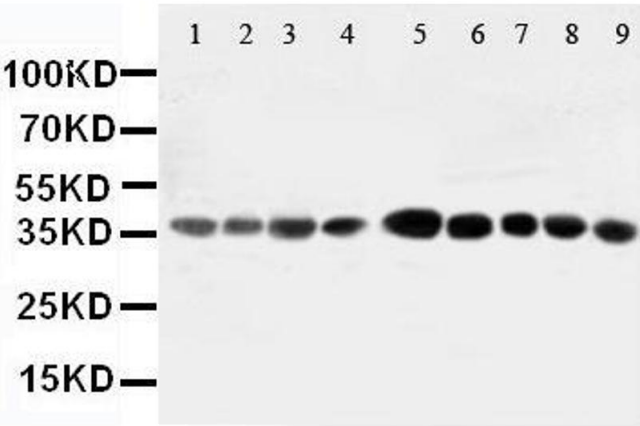
Publications

Product cited in: Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) ([PubMed](#)).



Immunohistochemistry

Image 1. Anti-AIMP2/p38 antibody, IHC(P) IHC(P): Human Rectal Cancer Tissue



Western Blotting

Image 2.