

# Product information



## AIMP2 (IB-02-0011)

**Catalog No :** IB-02-0011

**Products Name :**

Aminoacyl tRNA synthetase

complex-interacting multifunctional protein2 mAb

**Synonym :** JTV-1, p38, PRO0992

**Lot No :** ABAM-0930

**Description :** Anti-AIMP2 antibody containing 0.05% sodium azide for preservative

**Type :** Monoclonal

**Isotype :** IgG

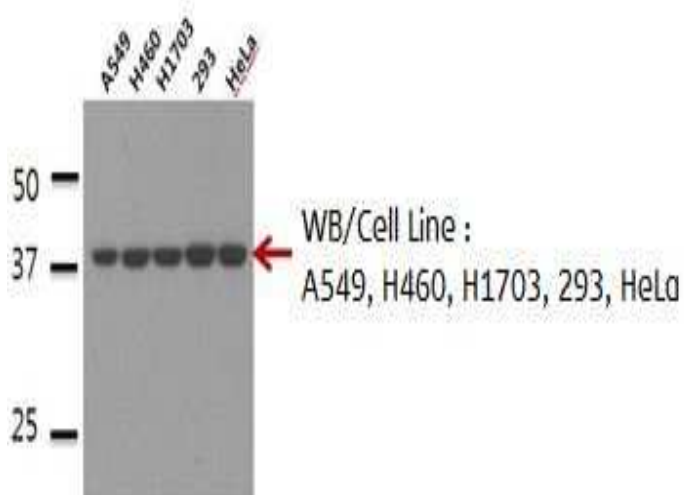
**Host :** Mouse

**Immunogen :** Denatured full length native recombinant human AIMP2

**Specificity :** This antibody reacts specifically with 38kDa p38(AIMP2)

**Species cross reactivity :** Human, mouse. Other species are not tested.

**Applications :** WB



Cell line : A549, H460, H1703, 293, HeLa

**Recommended Dilutions :**

1. 1/1000 for western blot
2. Final dilution fold should be determined by end user

**Storage :** Store at 4°C or -20°C

**Quantity :** 200µl(1mg/ml)

**Background :** AIMP2 is an important component for association of ARS multi-complex.

AIMP2 is a potent tumor suppressor. AIMP2 inhibit c-myc activity in TGF-beta signaling, link c-IAP1 to TRAF2 by TNF-alpha stimulation and activation p53 under DNA damaged condition.

**Reference :**

1. Chemical suppression of an oncogenic splicing variant of AIMP2 induces tumour regression. Hee Sook LEE et al., *Biochem. J.* Vol.454, 411–416, 2013
2. Splicing variant of AIMP2 as an effective target against chemoresistant ovarian cancer. Jin Woo Choi et al., *Journal of Molecular Cell Biology*, Vol.4, 164–173, 2012
3. Cancer-Associated Splicing Variant of Tumor Suppressor AIMP2/p38: Pathological Implication in Tumorigenesis. Jin Woo Choi et al., *PLoS Genetics*, Vol.7, Issue 3, e1001351, 2011
4. AIMP2/p38 promotes TNF-alpha-dependent apoptosis via ubiquitin-mediated degradation of TRAF2. Jinwoo Choi et al, *J. Cell Sci*, Vol.122, 2710-2715, 2009.
5. Multi-directional tumor suppressive activity of AIMP2/p38 and the enhanced susceptibility of AIMP2

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

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heterozygous mice to multi-organ carcinogenesis. Jinwoo Choi et al., *Carcinogenesis*, Vol.30, 1638-1644, 2009

6. AIMP2/p38, the scaffold for multi-tRNA synthetase complex, responds to genotoxic stresses via p53. Jung Min Han et al., *PNAS*, Vol.105, 11206-11211, 2008

7. Accumulation of the Authentic Parkin Substrate AminoacyltRNA Synthetase Cofactor, p38/JTV-1, Leads to Catecholaminergic Cell Death. Han Seok Ko et al., *The Journal of Neuroscience*, Vol.25(35), 7968–7978, 2005

8. Downregulation of FUSE-binding protein and c-myc by tRNA synthetase cofactor p38 is required for lung cell differentiation. Min Jung Kim et al., *NATURE GENETICS*, Vol.34(3), 2003

9. Solution structure and p43 binding of the p38 leucine zipper motif: coiled-coil interactions mediate the association between p38 and p43. Hee-Chul Ahn et al., *FEBS Letters*, Vol.542, 119-124, 2003

10. p38 is essential for the assembly and stability of macromolecular tRNA synthetase complex: Implications for its physiological significance. Jin Young Kim et al., *PNAS*, Vol.99(12), 7912–7916, 2002

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