Product information

AIMP3/p18 (IB-03-0003)

Catalog No. : IB-03-0003

Product Name : Aminoacyl tRNA synthetase complexinteracting multifunctional protein 3 Protein Lot No. : PCP23-HN

Molecular Weight : 18kDa Protein Construction : full length

Source : Human Purification : Multi-step chromatography Expression system : Recombinant human AIMP3 expressed by *E.coli*. Conjugate/Tag : N-term 6XHis tag

Background : Component of the multisynthase complex which is comprised of a bifunctional glutamyl-prolyltRNA synthase, the monospecific isoleucyl, leucyl, glutaminyl, methionyl, lysyl, arginyl and aspartyl-tRNA synthases, and three auxiliary proteins, EEF1E1/p18, AIMP2/p38 and AIMP1/p43. p18 is a cofactor of multi-ARS complex and regulates p53 through the interaction with ATM/ATR

Storage buffer : 1X PBS(pH7.2) 200mM NaCl 20% Glycerol

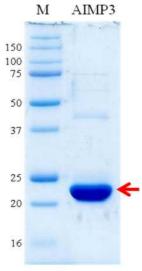
Storage instruction : Store at -70°C.

Purity : >95%

Quantity : 50µg

Concentration: 0.50mg/ml

Application : Western blot, ELISA, antibody production, protein array, activity assay.



Loading: 3.5 µg

Reference :

1. AIMP3/p18 Controls Translational Initiation by Mediating the Delivery of Charged Initiator tRNA to Initiation Complex. Kang T. et al., *J. Mol. Biol.*,Vol. 423, 475–481, 2012

2. Dual role of methionyl-tRNA synthetase in the regulation of translation and tumor suppressor activity of aminoacyltRNA synthetase-interacting multifunctional protein-3. Nam Hoon Kwon et al., *PNAS*, Vol.108(49), 19635-19640, 2011

3. Down regulation of lamin A by tumor suppressor AIMP3/p18 leads to a progeroid phenotype in mice. Young Sun Oh et al., *Aging Cell,* Vol. 9, 810–822, 2010

4. Determination of Three-dimensional Structure and Residues of the Novel Tumor Suppressor AIMP3/p18

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Required for the Interaction with ATM. Kyung-Jin Kim et al., *J Biol Chem.*, Vol. 283(20), 14032-14040, 2008 5. The haploinsufficient tumor suppressor p18 upregulates p53 via interactions with ATM/ATR. Park BJ et al., *Cell*, Vol.120:209-221, 2005

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