

Product datasheet

Anti-AIMP2/p38 antibody ab180897

3 Images

Overview

Product name	Anti-AIMP2/p38 antibody
Description	Rabbit polyclonal to AIMP2/p38
Host species	Rabbit
Specificity	ab180897 is predicted to not cross-react with EMAP II.
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide corresponding to Human AIMP2/p38 (internal sequence). (16 amino acid peptide; NP_006294). Database link: Q13155
Positive control	HeLa cell lysate; Rat small intestine tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab180897** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

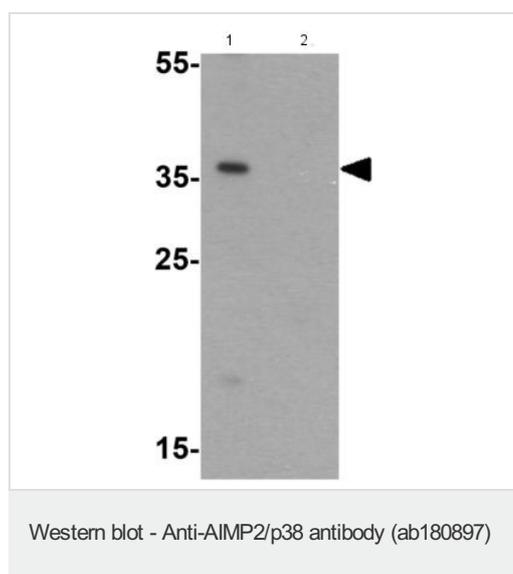
Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 35 kDa).

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

Function	Required for assembly and stability of the aminoacyl-tRNA synthase complex. Mediates ubiquitination and degradation of FUBP1, a transcriptional activator of MYC, leading to MYC down-regulation which is required for aveolar type II cell differentiation. Blocks MDM2-mediated ubiquitination and degradation of p53/TP53. Functions as a proapoptotic factor.
Sequence similarities	Contains 1 GST C-terminal domain.
Post-translational modifications	Phosphorylated on serine residues in response to UV irradiation. Ubiquitinated by PARK2, leading to its degradation by the proteasome. Mutant PARK2 fails to ubiquitinate AIMP2 efficiently, allowing its accumulation which may contribute to neurodegeneration associated with Parkinson disease.
Cellular localization	Cytoplasm > cytosol. Nucleus. Following DNA damage, dissociates from the aminoacyl-tRNA synthase complex and translocates from the cytoplasm to the nucleus.

Images



All lanes : Anti-AIMP2/p38 antibody (ab180897) at 1 µg/ml

Lane 1 : HeLa cell lysate

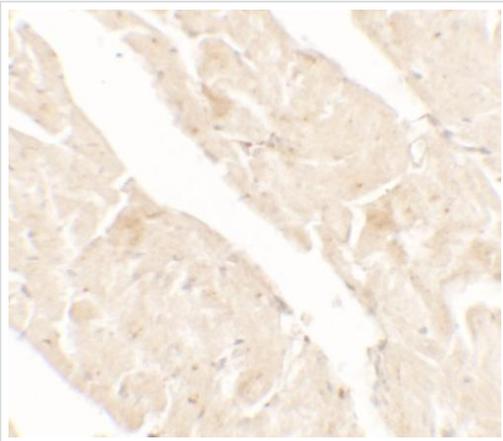
Lane 2 : HeLa cell lysate with blocking peptide

Lysates/proteins at 15 µg per lane.

Predicted band size: 35 kDa

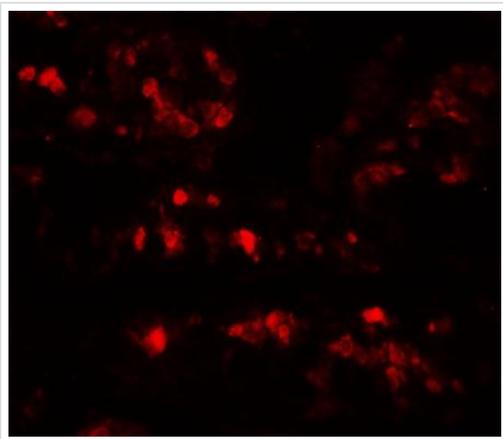
Observed band size: 36 kDa

[why is the actual band size different from the predicted?](#)



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue labeling AIMP2/p38 with ab180897 at 5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AIMP2/p38 antibody (ab180897)



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue labeling AIMP2/p38 with ab180897 at 20 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AIMP2/p38 antibody (ab180897)

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