

Product datasheet

Anti-AIMP2/p38 antibody ab228004

1 References 3 Images

Overview

Product name	Anti-AIMP2/p38 antibody
Description	Rabbit polyclonal to AIMP2/p38
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment within Human AIMP2/p38 (internal sequence). The exact sequence is proprietary. Database link: Q13155
Positive control	WB: HL-60 whole cell lysate. IHC-P: Human kidney tissue. ICC/IF: HeLa cells.

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	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228004** in the following tested applications.

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

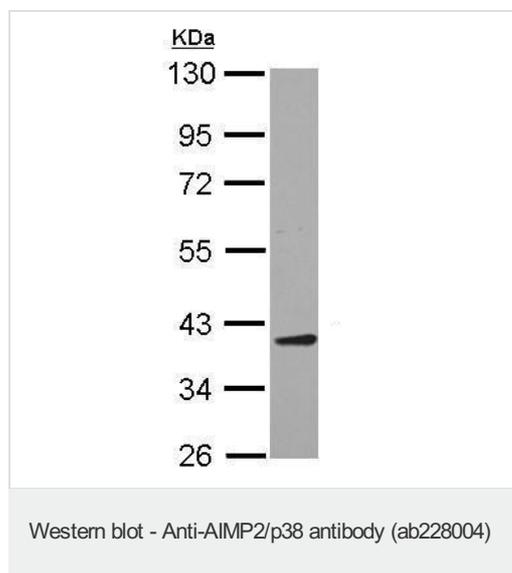
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 35 kDa.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

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

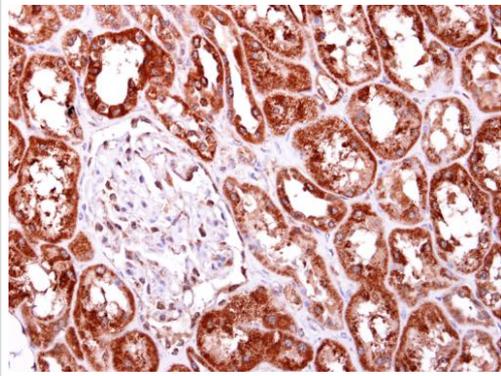


Anti-AIMP2/p38 antibody (ab228004) at 1/1000 dilution + HL-60 (human promyelocytic leukemia cell line) whole cell lysate at 30 µg

Developed using the ECL technique.

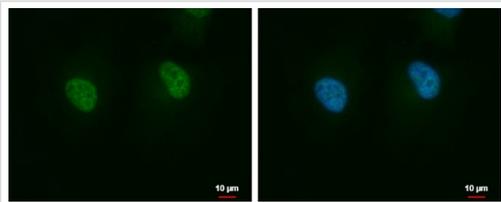
Predicted band size: 35 kDa

10% SDS-PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-AIMP2/p38 antibody (ab228004)

Paraffin-embedded human kidney tissue stained for AIMP2/p38 with ab228004 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-AIMP2/p38 antibody (ab228004)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for AIMP2/p38 (green) using ab228004 at 1/500 dilution in ICC/IF. Cells were fixed in 4% paraformaldehyde at RT for 15 minutes.

Blue: Hoechst 33342 staining.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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