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Datasheet for 600-401-C03

ARF-BP1 Antibody

Overview

Description:	Anti-ARF-BP1 (RABBIT) Antibody - 600-401-C03
Item No.:	600-401-C03
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The ARF tumor suppressor is a critical regulator of p53 stability. In addition to p53, ARF1 binds to other proteins such as MDM2 and ARF-BP1, a large protein containing HECT, UBA and WWE motifs. ARF-BP1 directly binds and ubiquitinates p53; this activity is inhibited by ARF, indicating that ARF-BP1 is a critical mediator of the p53-dependent and p53-independent tumor suppressor functions of ARF. ARF-BP1 can also catalyze the polyubiquitination of Mcl-1, an anti-apoptotic Bcl-2 family member involved in DNA damage-induced apoptosis. Elimination of ARF-BP1 expression by RNA interference stabilized Mcl-1 protein, resulting in an attenuation of apoptosis induced by DNA-damage agents. Anti-ARF-BP1 antibody is ideal for investigators involved in cancer research.
Synonyms:	ARF-BP1, ARF binding protein 1; HECT, UBA and WWE domain containing 1; HUWE1; Mcl-1 ubiquitin ligase E3; Mule; E3 ubiquitin-protein ligase HUWE1, KIAA0312, KIAA1578, UREB1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HUWE1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	ARF-BP1 Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human ARF-BP1 protein.
Purity/Specificity:	Anti-ARF-BP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with ARF-BP1 with Human, Rat and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with ARF-BP1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q7Z6Z7 • NCBI - NP_113584.3 • GeneID - 10075

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	ARF-BP1 antibody has been tested in ELISA, WB, IF, and ICC. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~481 kDa in size corresponding to ARF-BP1 by Western blotting in the appropriate cell lysate or extract. Daudi cell lysate can be used as positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
WB:	1.0 -2.0 µg/mL

Formulation

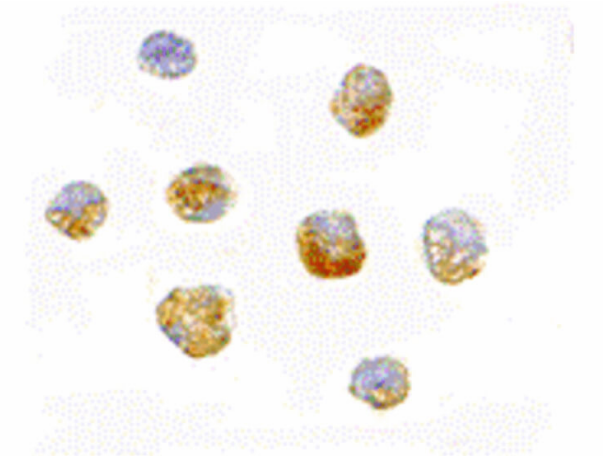
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice

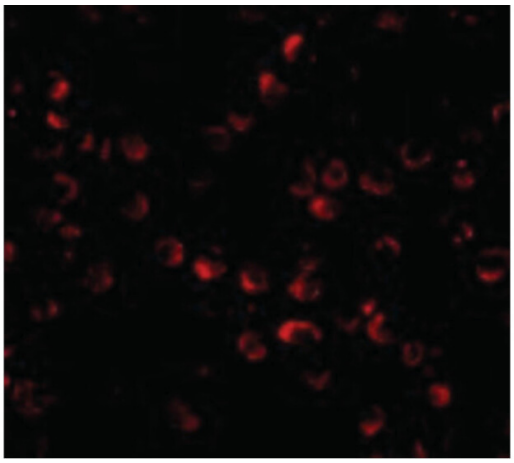
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



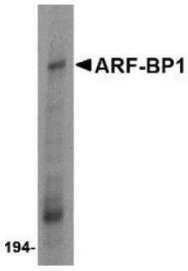
Immunohistochemistry
Immunocytochemistry of ARF-BP1 antibody. Tissue: Daudi cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: ARF-BP1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARF-BP1 is nuclear and cytoplasmic. Staining: ARF-BP1 as precipitated brown signal with hematoxylin purple nuclear counterstain.

Immunocytochemistry
Immunocytochemistry demonstrating detection of ARF-BP1 in Daudi cells. The primary antibody was used at 5 µg/ml.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of ARF-BP1 antibody. Tissue: Daudi cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: ARF-BP1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: ARF-BP1 is nuclear and occasionally cytoplasmic. Staining: ARF-BP1 as a red fluorescent signa.

Western Blot
Western Blot of ARF-BP1 antibody. Lane 1: Daudi cell lysate at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.
Predicted/Observed size: 481 kDa, ~480 kDa for ARF-BP1.
Other band(s): ARF-BP1 splice variants and isoforms.



Western Blot
Western blot showing detection of ARF-BP1 in Daudi cell lysate. Primary antibody was used at 1 µg/ml.

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