

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 • GenelD - 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

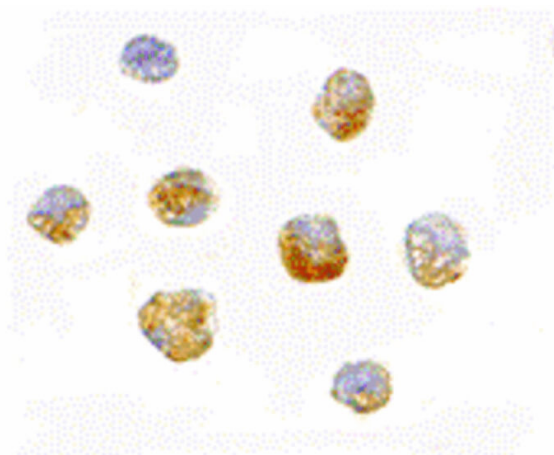
Shipping & Handling

Shipping Condition:	Wet Ice
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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



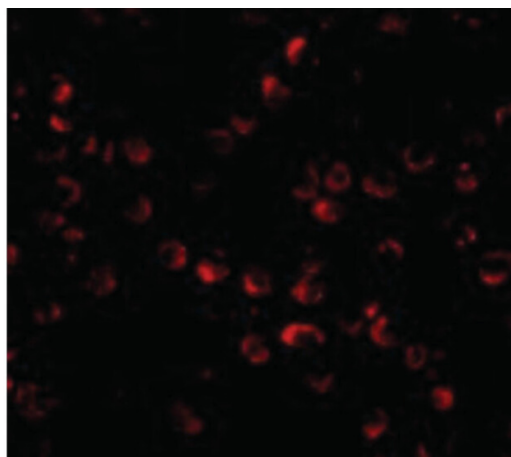
Immunohistochemistry

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 $\mu\text{g/mL}$ 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 signal.

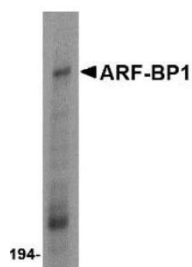


Western Blot

Western Blot of ARF-BP1 antibody. Lane 1: Daudi cell lysate at 1 $\mu\text{g/mL}$. 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 $\mu\text{g/mL}$.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.