

Datasheet for 600-401-DJ0**p53AIP1 Antibody****Overview**

Description:	Anti-p53AIP1 (RABBIT) Antibody - 600-401-DJ0
Item No.:	600-401-DJ0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The p53 tumor-suppressor protein can induce apoptosis through transcriptional activation of several genes. One such protein p53AIP was initially identified through direct cloning of p53 binding sequences from human genomic DNA. Its expression is inducible by p53 following p53 phosphorylation on Ser-46, and ectopic expression of p53AIP leads to apoptotic cell death. Both the phosphorylation of p53 and the induction of p53AIP were blocked by inhibiting the expression of p53DINP1 by the introduction of antisense oligonucleotides to p53DINP1, suggesting that the apoptosis associated with p53AIP expression is regulated by p53DINP1. Finally, as adenovirus-mediated introduction of p53AIP has been shown to suppress tumor growth in vivo, it has been suggested that p53AIP gene transfer may become a useful strategy for the treatment of p53-resistant cancers. Three isoforms of p53AIP are known to exist; this antibody will detect all three.
Synonyms:	p53AIP1 Antibody, P53AIP1, p53-regulated apoptosis-inducing protein 1, p53AIP1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TP53AIP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-p53AIP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the N-terminus of human p53AIP1.
Purity/Specificity:	Anti-p53AIP1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with p53AIP1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9HCN2 • GeneID - 63970 • NCBI - BAB16421

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-p53AIP1 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 13 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:40,000 - 1:80,000
IF:	20 µg/mL
WB:	4-8 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

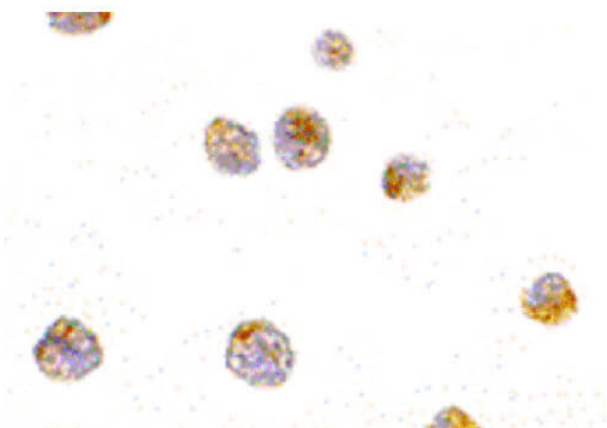
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

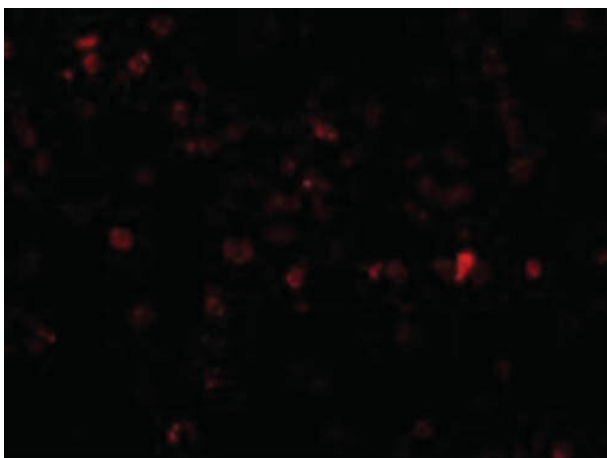
Expiration: Expiration date is one (1) year from date of receipt.

Images



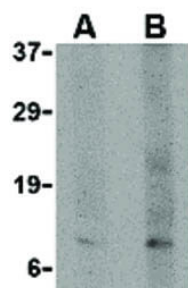
Immunocytochemistry

Immunocytochemistry of p53AIP1 antibody. Cells: HL60 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: p53AIP1 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: p53AIP1 is localized in mitochondria. Staining: p53AIP1 as precipitated brown signal with hematoxylin blue nuclear counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of p53AIP1 antibody. Tissue: HL60 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: p53AIP1 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: p53AIP1 is localized in mitochondria. Staining: p53AIP1 as red fluorescent signal.

**Western Blot**

Western Blot of p53AIP1 antibody. Lane 1: HL60 cell lysate with p53AIP1 at 4 $\mu\text{g/mL}$. Lane 2: HL60 cell lysate with p53AIP1 at 8 $\mu\text{g/mL}$. 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: 12.9 kDa, 13 kDa for p53AIP1.

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.