Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-A18

ASPP1 Antibody

Overview

Description:	Anti-ASPP1 (RABBIT) Antibody - 600-401-A18
Item No.:	600-401-A18
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	ASPP (ankyrin-repeat-, SH3-domain- proline-rich-region protein) proteins (ASPP1, ASPP2 and iASPP) represent a new family of p53 binding proteins. ASPP1 and ASPP2 bind and enhance p53 -mediated apoptosis. In contrast, iASPP functionally inactivates p53. ASPPs may also regulate p63- and p73-mediated apoptosis. Both ASPP1 and 2 directly interact with p53 and specifically enhance the apoptotic function of p53 by stimulating its DNA binding and transactivation function on promoters of pro-apoptotic genes, such as Bax and PIG-3. Not all cell cycle arrest genes are affected, such as p21. Interestingly, expression of ASPP is frequently down-regulated in human breast carcinomas expressing wild-type p53 but not mutant p53. Therefore, ASPP might regulate the tumor suppression function of p53 in vivo.
Synonyms:	rabbit anti-ASPP1 Antibody, ASPP-1, ASPP 1, p53BP2 like antibody, p85 antibody, PPP1R13B antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PPP1R13B
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal sequence of human ASPP1.
Purity/Specificity:	This affinity purified antibody is directed against human ASPP1. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. Minimal reactivity occurs against ASPP2. A BLAST analysis was used to suggest cross-reactivity with ASPP1 from mouse based on a 92% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - NP_056131.2 • UniProtKB - Q96KQ4 • GeneID - 23368

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 120 kDa in size corresponding to ASPP1 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,500 - 1:10,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.33 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

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

Western Blot
Western blot using Rockland's affinity purified anti-ASPP1 to detect over-expressed ASPP1 in MCF-7 cells (lane 2, arrowhead). Lane 1 is a non-transfected control. Lane 3 is MCF-7 cells over-expressing ASPP2. Cell extracts were electrophoresed and transferred to nitrocellulose. The membrane was probed with the primary antibody at a 1:1,000 dilution. The identity of the lower MW band at approximately 50kDa is unknown. Primary experimental data indicate that the unknown band intensifies in extracts from p53 siRNA knockdown cells. Personal Communication, H. Yang, Univ. Oklahoma, Oklahoma City, OK.

Disclaimer