

Datasheet for 200-401-A19**ASPP2 Antibody****Overview**

Description:	Anti-ASPP2 (RABBIT) Antibody - 200-401-A19
Item No.:	200-401-A19
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-ASPP2 antibody, ASPP-2, ASPP 2, Apoptosis stimulating of p53 protein 2 antibody, Bbp antibody, Bcl2 binding protein antibody, NY REN 51 antigen antibody, p53 binding protein 2 antibody, Tumor suppressor p53-binding protein 2, TP53BP2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TP53BP2
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 ASPP2.
Purity/Specificity:	This Protein A purified antibody is directed against human ASPP2. The product was purified from monospecific antiserum by Protein A affinity chromatography. Minimal reactivity occurs against ASPP1. A BLAST analysis was used to suggest cross-reactivity with ASPP2 from macaque and dog sources based on a 100% homology with the immunizing sequence. Expect partial reactivity with ASPP2 from mouse and rat sources based on an 80% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 112799849 • UniProtKB - Q13625 • GenelD - 7159

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 125 kDa in size corresponding to ASPP2 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
IHC:	User Optimized
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	2.4 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

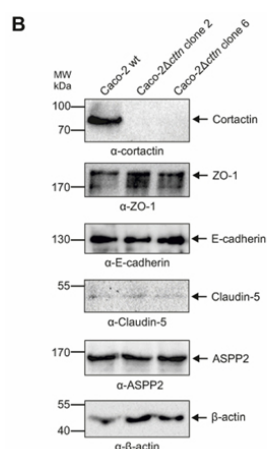
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

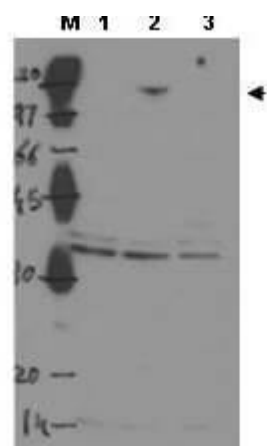
Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

(B) Western blot showing a ~85 kDa protein corresponding to cortactin in Caco-2 wt cells, but not in Caco-2Δcttn mutant clones 2 and 6. Western blotting with antibodies specific for ZO-1, E-cadherin, Claudin-5, ASPP2 and β-actin served as control. Fig 1. PMID: 38646547.



Western Blot

Western blot using Rockland's Protein A purified anti-ASPP2 to detect over-expressed ASPP2 in MCF-7 cells (Lane 2, arrowhead). Lane 1 is a nontransfected control. Lane 3 is MCF-7 cells over-expressing ASPP1. 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 40kDa is unknown. Personal Communication, H. Yang, Univ. Oklahoma, Oklahoma City, OK.

References

- Sharafutdinov I et al, Cortactin-dependent control of Par1b-regulated epithelial cell polarity in Helicobacter infection. *Cell Insight*. (2024)

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.