

Certificate of Analysis

Product: Affinity Purified Anti-ASPP1 [Rabbit]

Code: 600-401-A18

Lot # 19134

Size: 100 µg

Physical State: Liquid (sterile filtered)

Protein Concentration: 1.3 mg/ml (by UV absorbance at 280 nm)

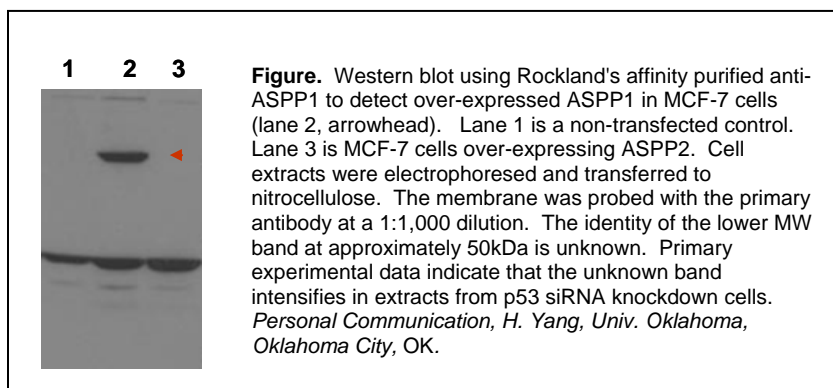
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at -20° C or below prior to opening. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening product.

Background Information: 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*.



Application Note(s): 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.

Recommended Dilutions:

ELISA	1:2,500 - 1:10,000
WESTERN BLOT	1:500 - 1:3,000
IMMUNOHISTOCHEMISTRY	User Optimized
OTHER APPLICATIONS	User Optimized

Purity and 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.

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.

Relevant Links: NCBI [NP_056131](#). Swiss-Prot [Q96KQ4](#)

Related Product(s):

#600-401-926	Affinity Purified Anti-iASPP (Rabbit)
#600-401-A18	Affinity Purified Anti-ASPP1 (Rabbit)
#200-401-A19	Protein A Purified Anti-ASPP2 (Rabbit)
#611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
#611-132-122	IRDye® 800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
#B501-0500	BLOTTO (500 g)
#BSA-30	30% BOVINE SERUM ALBUMIN SOL'N in 0.85% sodium chloride (no preservative or stabilizer) (500 ml)
#B304	NORMAL GOAT SERUM (NGS) (10 ml)
#KIA-003	MaxTag™ Anti-RABBIT IgG Kit for Immunoblotting
#MB-070	Blocking Buffer for Fluorescent Western Blotting

General References:

Liu, Z.J., Lu, X. and Zhong, S. (2005) ASPP-Apoptotic specific regulator of p53. *Biochim. Biophys. Acta* **1756**(1): 77-80.

Trigiante, G. and Lu, X. (2006) ASPPs and Cancer. *Nat. Rev. Cancer* **6**(3): 217-226.

Samuels-Lev, Y., *et al.* (2001) ASPP Proteins Specifically Stimulate the Apoptotic Function of p53. *Mol. Cell* **8**: 781-794.

Slee, E.A. and Lu, X. (2003) The ASPP family deciding between life and death after DNA damage. *Toxicol. Lett.* **139**: 81-87.

Liu, Z.J., Lu, X., Zhang, Y., Zhong, S., Gu, S.Z., Zhang, X.B., Yang, X. and Xin, H.M. (2005) Downregulated mRNA expression of ASPP and the hypermethylation of the 5'-untranslated region in cancer cell lines retaining wild-type p53. *FEBS Lett.* **579**(7): 1587-1590.

USDA Certification: 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.

Note: 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.