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Datasheet for 200-401-A19

# ASPP2 Antibody

## Overview

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| **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

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| **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

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| **Gene Name:** | TP53BP2 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Conjugated Peptide |

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| **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<br>• UniProtKB - Q13625<br>• GeneID - 7159 |

## Application Details

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| **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

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| **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

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| **Shipping Condition:** | Dry Ice |

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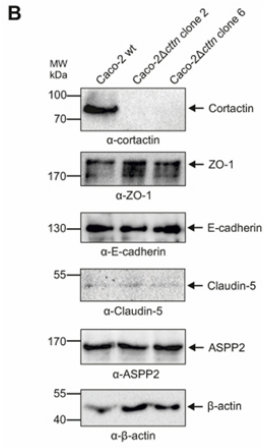
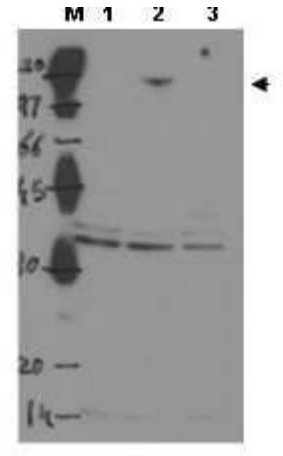
| **Storage Condition:** | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C 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)

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