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Datasheet for 200-301-H52

# A20 Antibody

## Overview

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| **Description:** | Anti-A20 (MOUSE) Monoclonal Antibody - 200-301-H52 |
| **Item No.:** | 200-301-H52 |
| **Size:** | 100 µg |
| **Applications:** | FC, IF, IHC, IP, WB |
| **Reactivity:** | Human |
| **Host Species:** | Mouse |

## Product Details

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| **Background:** | Anti-A20 antibody detects human A20. A20 (TNFAIP3) is an important regulator of proinflammatory signaling pathways, including NK-kB signaling. A20 is upregulated through NF-kB (p50/p55) activation, and subsequently down regulates NF-kB through its dual function as a deubiquitinase and ubiquitin ligase. The A20 monoclonal antibody has been instrumental in discovering various nuances of NF-kB regulation and key to defining A20 biology. Anti-A20 antibody is ideal for investigators involved in NFkappaB and Signaling research. |
| **Synonyms:** | OTUD7C, Tumor necrosis factor alpha-induced protein 3, TNF alpha-induced protein 3, OTU domain-containing protein 7C, A20p50, A20p37 |
| **Host Species:** | Mouse |
| **Clonality:** | Monoclonal |
| **Clone ID:** | 59A426 |
| **Format:** | IgG1 |

## Target Details

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| **Gene Name:** | TNFAIP3 |
| **Reactivity:** | Human |
| **Immunogen Type:** | Recombinant Protein |
| **Immunogen:** | A20 Antibody was produced in mice by repeated immunizations with recombinant human A20 protein at the c-terminus. |

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| **Purity/Specificity:** | Anti-A20 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-A20 from Human, Mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-A20 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - P21580<br>• NCBI - NP_001257436.1<br>• GeneID - 7128 |

## Application Details

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| **Tested Applications:** | FC, IF, IHC, IP, WB |
| **Application Note:** | Anti-A20 antibody is tested for use in WB, Flow, Flow-IC, ICC/IF, IHC, IHC-P, and IP. Expect a band approximately 90kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **IP:** | 1-2 µg/mL |
| **WB:** | 2-4 µg/mL |

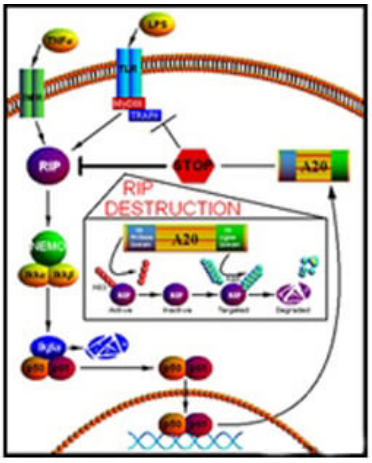
## Formulation

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| **Physical State:** | Liquid |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.05% (w/v) Sodium Azide |
| **Stabilizer:** | 0.05% BSA |

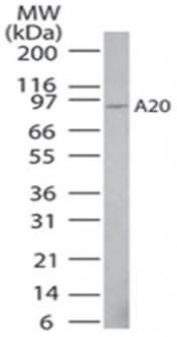
## Shipping & Handling

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| **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




**Pathway**
Anti-A20 antibody upregulated through NF-kB (p50/p65) activation leads to NF-kB down regulation through RIP destruction. Specifically, A20 deactivates RIP by removing Lys63-linked polyubiquitin, and then targeting RIP for degradation by adding Lys48-linked polyubiquitination. A20 upregulation may be a marker of NF-kB activation and its imprending down regulation.




**Western Blot**
Western Blot of Mouse Anti-A20 antibody. Lane A: human Jurkat lysate. Load: 30 µg per lane. Primary antibody: A20 antibody at 4µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 89.6 kDa for A20. Other band (s): none.

## 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.