

# Product Datasheet

## p53 Antibody (SPM589) [Alexa Fluor® 594] NBP2-34817AF594

Unit Size: 0.1 ml

Store at 4C in the dark.

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Updated 10/26/2023 v.20.1

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**NBP2-34817AF594**

p53 Antibody (SPM589) [Alexa Fluor® 594]

| <b>Product Information</b>     |  |
|--------------------------------|--|
| <b>Unit Size</b>               | 0.1 ml   |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services.  |
| <b>Storage</b>                 | Store at 4C in the dark.   |
| <b>Clonality</b>               | Monoclonal   |
| <b>Clone</b>                   | SPM589   |
| <b>Preservative</b>            | 0.05% Sodium Azide   |
| <b>Isotype</b>                 | IgG2a Kappa  |
| <b>Conjugate</b>               | Alexa Fluor 594  |
| <b>Purity</b>                  | Protein A or G purified  |
| <b>Buffer</b>                  | 50mM Sodium Borate   |
| <b>Product Description</b>     |  |
| <b>Host</b>                    | Mouse  |
| <b>Gene ID</b>                 | 7157   |
| <b>Gene Symbol</b>             | TP53   |
| <b>Species</b>                 | Human, Mouse (Negative), Rat (Negative)  |
| <b>Reactivity Notes</b>        | Does not react with Mouse or Rat.  |
| <b>Marker</b>                  | Nuclear  |
| <b>Specificity/Sensitivity</b> | Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild form of p53 under denaturing and non-denaturing conditions. Its epitope maps within the N-terminus (aa 20-25) of p53 oncoprotein. p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to MDM2, SV40 T antigen and human papilloma virus E6 protein. Positive nuclear staining with p53 antibody has been reported to be a negative prognostic factor in breast carcinoma, lung carcinoma, colorectal, and urothelial carcinoma. Anti-p53 positivity has also been used to differentiate uterine serous carcinoma from endometrioid carcinoma as well as to detect intratubular germ cell neoplasia. Mutations involving p53 are found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma. |
| <b>Immunogen</b>               | Recombinant human wild-type p53 protein (Uniprot: P04637)  |

|              |  |
|--------------|--|
| <b>Notes</b> | <p>Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or <a href="mailto:outlicensing@lifetech.com">outlicensing@lifetech.com</a>. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.</p> |
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| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready |
| <b>Recommended Dilutions</b>       | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, CyTOF-ready |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.  |



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### **Products Related to NBP2-34817AF594**

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|                 |   |
|-----------------|---|
| NBP1-96981AF594 | Mouse IgG2a Kappa Isotype Control (M2AK) [Alexa Fluor® 594] |
| NBP2-56234PEP   | p53 Recombinant Protein Antigen                             |
| 1129-ER-050     | ErbB2/Her2 [Unconjugated]                                   |
| DYC1043-2       | p53 [Biotin]  |

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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