Product Datasheet


NB100-1803

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

Publications: 13

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Updated 2/9/2023 v.20.1

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# NB100-1803

## Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.1 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>0.2 mg/ml</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C. Do not freeze.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.09% Sodium Azide</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>TBS and 0.1% BSA</td>
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</tbody>
</table>

## Product Description

**Host**  
Rabbit

**Gene ID**  
7158

**Gene Symbol**  
TP53BP1

**Species**  
Human, Mouse

**Marker**  
DNA Double Strand Break Marker

**Immunogen**  
53BP1 [p Ser25] Antibody was made to a phosphorylated synthetic peptide, which represented a portion of human p53 Binding Protein 1 (GeneID 7158) around serine 25 according to the numbering given in entry NP_005648.1.

**Notes**  
This antibody can be used as the primary antibody in a PLA assay with the following as complementing antibodies: NB100-97831, NB110-40543, NB100-322, NB200-171, NB100-68265

## Product Application Details

**Applications**  
Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation

**Recommended Dilutions**  

**Application Notes**  
Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. ICC/IF reactivity reported in (PMID: 27713178).
Western Blot: 53BP1 [p Ser25] Antibody [NB100-1803] - Samples: Whole cell lysate (30 ug or 15 ug for WB; 1 mg for IP, 20% of IP loaded) from 293T cells that were mock treated or treated with NCS (200 ng/ml; 1h). Affinity purified rabbit anti-Phospho 53BP1 antibody at 0.04 ug/ml (A) and 0.1 ug/ml (B) for WB. 53BP1 was immunoprecipitated using affinity purified rabbit anti-53BP1 Antibody (Catalog #NB100-304). Detection: Chemiluminescence with exposure times of 3 seconds (A and B). Bands appear at ~350 kDa as the observed molecular weight and the theoretical molecular weight is 214 kDa.

Flow Cytometry: 53BP1 [p Ser25] Antibody [NB100-1803] - Flow cytometric analysis of phospho 53BP1 (S25). Jurkat cells were treated with neocarzinostatin (NCS) for 1.5 hrs. 1 Million cells were fixed, permeabilized, and stained with 1.5 ug/ml antiphospho 53BP1 (S25) (Catalog #NB100-1803) in a 150 ul reaction. Isotype control (black), untreated (red), NCS treated (blue).


More publications at http://www.novusbio.com/NB100-1803
Procedures

Flow Cytometry protocol for 53BP1 Antibody (NB100-1803)
Flow Cytometry Protocol for Indirect Intracellular Staining of Cultured Cells Grown in Suspension:

Reagents Required:

16% paraformaldehyde (PFA) (Electron Microscopy Sciences RT 15710)
90% Methanol (ice cold)
PBS (Phosphate Buffered Saline pH 7.2)
11.6 g sodium chloride
100 ml 1 M phosphate buffer
0.26 M 4 M sodium hydroxide
DI H2O to 1 liter
ICSB (IntraCellular Staining Buffer)
495 ml PBS
5 ml FBS (fetal bovine serum)
0.36 ml 9% sodium azide
12 x 75 FACS tubes (BD Falcon #352054)

Cell Fixation and Permeabilization:

1. For cells grown in suspension, add fresh 16% PFA to achieve a final concentration of 1.54% directly to the cells in media (1-2 x 106 cell/ml).
2. Fix cells at room temperature (RT) for 10 minutes.
3. Incubate and fix on ice for an additional 30 minutes.
4. Spin fixed cells at 250 x g for 5 minutes at 20C.
5. Pour off media + PFA into dedicated PFA waste container.
6. Permeabilize cells by resuspending in ice cold 90% methanol to a final cell concentration of 1 X 106 cells/ml.
7. Cells may be stored at -70 to -20C for up to a month.

Intracellular Staining:

1. Aliquot 1 ml (1 x 106 cells) of cells in methanol for each tube/sample.
2. Spin at 250 x g for 5 minutes at 20C, break set to slow (perform all subsequent spins at these conditions)
3. Pour off methanol.
4. Resuspend cells in 1 ml ICSB for wash.
5. Pour off wash and blot tube on paper towels.
6. Resuspend cells in 50 ml of primary antibody at desired dilution.
7. Incubate at RT for 1 hour.
8. Add 1 ml of ICSB.
9. Spin.
10. Pour off and blot tube.
11. Resuspend in 100 ml of conjugated secondary antibody at desired dilution.
12. Incubate 30 minutes at RT in dark.
13. Add 1 ml ICSB for 2nd wash.
14. Spin, pour off, and blot tube.
15. Resuspend in 100 ml ICSB.
16. Analyze on a flow cytometer.

Notes:

This is a recommended protocol, and additional optimization may be required for any individual experiment.
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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Products Related to NB100-1803

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>NB820-59453</td>
<td>Human Stomach Whole Tissue Lysate (Adult Whole Tumor)</td>
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<tr>
<td>HAF008</td>
<td>Goat anti-Rabbit IgG Secondary Antibody [HRP]</td>
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<tr>
<td>NB7156</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody</td>
</tr>
<tr>
<td>NBP2-24891</td>
<td>Rabbit IgG Isotype Control</td>
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