

Product Datasheet

53BP1 Antibody NBP1-19447

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-19447

53BP1 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2)
Target Molecular Weight	213 kDa

Product Description	
Host	Rabbit
Gene ID	7158
Gene Symbol	TP53BP1
Species	Human, Mouse, Rat
Reactivity Notes	Human, Mouse, Rat
Marker	DNA Double Strand Break Marker
Immunogen	Synthetic peptide, corresponding to the N-terminus of Human 53BP1.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	Western blot (WB) analysis of 53BP1 (D2) pAb in extracts from A549 cells.

Publications

Smeenk G, Wiegant WW, Marteijs JA et al. Poly(ADP-ribosyl)ation links the chromatin remodeler SMARCA5/SNF2H to RNF168-dependent DNA damage signaling J Cell Sci 2012-12-21 [PMID: 23264744] (ICC/IF, Human)



Procedures

Immunocytochemistry/Immunofluorescence Protocol for 53BP1 Antibody (NBP1-19447)

Immunofluorescence Protocol

1. Cell Culture

- 1) Incubate cover glasses in 50% H₂SO₄ for 1 hour using a porcelain rack (Thomas Scientific).
- 2) Wash cover glasses for 30 min in running tap water.
- 3) Rinse with dH₂O.
- 4) Incubate cover glasses in 40 ug/ml poly-L-lysine (MW ~70-90kD) for 1 hour at room temperature.
- 5) Wash cover glasses for 1 hour in running tap water.
- 6) Rinse cover glasses 3 times 5 min each in dH₂O.
- 7) Dry cover glasses on filter paper in a dust-free area.
- 8) Sterilize cover glasses inside the laminar flow chamber under UV light for at least 4 hours.
- 9) Detach cell from the plastic surface by incubating them in trypsin solution.
- 10) Resuspend detached cells in culture medium and transfer them to culture dishes with the cover glasses.
- 11) Culture cells up to semi-confluency.

2. Fixation

- 1) Fix in 3% paraformaldehyde, 0.02% glutaraldehyde in PBS for 15 min at room temperature.
- 2) Permeabilize by dipping cells for 10 seconds in 100% methanol (-20 degrees C).
- 3) Incubate cells for 3-times 10 min in 0.5 mg/ml NaBH₄ in PBS, pH 8.0 to reduce aldehyde groups and then rinsed with PBS.

3. Staining

- 1) Drain off culture medium and rinse cover slips with PBS.
- 2) Drain off PBS with any of the above mentioned fixation methods.
- 3) Wash in PBS 3-times 5 min.
- 4) Permeabilize with 0.01% Triton X-100 in PBS for 30 sec (if needed).
- 5) Wash in PBS 3-times 5 min.
- 6) Incubate in 1% BSA, PBS pH 7.5 for 30 min to block unspecific binding of the antibodies. (alternative blocking solutions are: 1% gelatine, 1 % bovine or horse serum)
- 7) Incubate with primary antibody in 1% BSA, PBS pH 7.5 for 60 min (or over night at r.t. depending on antibody concentration and the accessibility of the antigen).
- 8) Wash with PBS pH 7.5, 3-times 10 min.
- 9) Incubate 2nd antibody in 1% BSA, PBS pH 7.5, 60 min at r.t.
- 10) Wash with PBS pH 7.5, 3-times 10 min.





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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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