NEUROMICS

SMC1 Data Sheet

Catalog Number:	MO15108	**Host:**	Mouse
Product Type:	Protein G Purified, IgG_{2B}	**Species Reactivity:**	Human, Rat, Mouse
Immunogen Sequence:	Hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant human SMC1 (rhSMC1; aa 836 - 1233; Accession # NM_006306).	**Format:**	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose

Applications: Western Blot-0.2-0.5 µg/mL

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*

Application Notes

Specificity
The antibody detects human, mouse and rat SMC1.

Western blot
An antibody concentration of 0.2 - 0.5 µg/mL is recommended.

Protocol

Blotting Buffer	Blocking Solution
25 mM Tris, pH 7.5	5% nonfat dry milk
5% nonfat dry milk	in Blotting Buffer pH to
0.05% Tween 20	7.5

1. Transfer the electrophoresed proteins onto a PVDF membrane and incubate the membrane for 1 hour at room temperature in Blocking Solution.

2. Incubate the membrane for 2 hours at room temperature or overnight at 2 - 8° C in Blocking Solution containing 0.25 - 0.5 µg/mL anti-human/mouse/rat SMC1 antibody.

3. Wash the membrane at room temperature for 30 minutes with 3 or more changes of Blotting Buffer. Changing the membrane containers often reduces background.

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4. Incubate the membrane at room temperature for 1 hour in Blocking Solution containing a 1: 1,000 dilution of goat anti-mouse IgG-HRP

5. Wash the membrane for 30 minutes with 3 or more changes of Blotting Buffer.

6. Detect with WesternGlo Chemiluminescent detection reagents

Cell lysates for Western blotting: To prepare total cell lysates, solubilize cells in 2X SDS gel sample buffer (20 mM dithiothreitol, 6% SDS, 0.25 M Tris, pH 6.8, 10% glycerol, and bromophenyl blue) and sonicate with a probe sonicator using 3 - 4 bursts of 5 - 10 seconds each. Heat extracts in a boiling water bath for 5 minutes and load onto polyacrylamide gels. Samples may be diluted with 1X SDS sample buffer to the desired concentration.

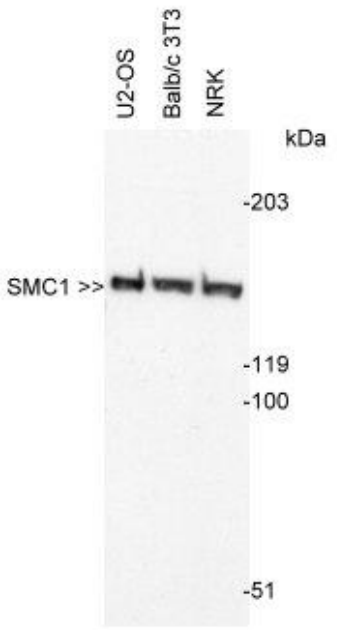

Image: Detection of SMC1 with MO15108. Extracts from exponentially growing U2-OS (human), Balb/c-3T3 (mouse), and normal rat kidney (NRK) cells were prepared, resolved by SDS-PAGE, and transferred to a PVDF membrane. The membrane was immunoblotted with 0.25 µg/mL monoclonal anti-SMC1 antibody.

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