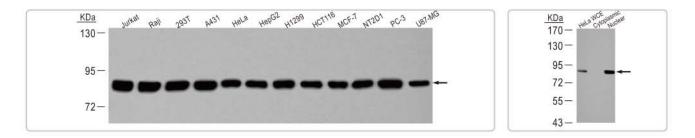


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Internal Controls for Loading and Fractionation

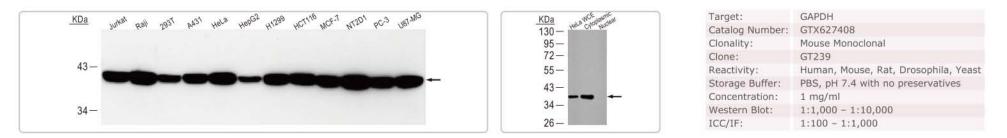
p84 Antibody [5E10] (Nuclear Fraction or WCE)



Product Information

p84 Nuclear Matrix protein
GTX70220
Mouse Monoclonal
5E10
Human, Mouse
PBS, pH 7.4 with no preservatives
1 mg/ml
1:500 - 1:3,333
1:500 - 1:2,000

GAPDH Antibody [GT239] (Cytoplasmic Fraction or WCE)



* For more information or to reorder please visit www.genetex.com/GTX300040

Western Blot Protocol

RIPA Buffer

Tris-HCl (pH 7.6) 25 mM NaCl 150 mM Triton X-100 1% Na-deoxycholate 1% SDS 1% Store at 4°C. Add protease inhibitors prior to use.

I. Lysate Preparation

Monolayer Cells

Perform the following steps on ice using pre-chilled buffers:

1. Remove culture medium from subconfluent cultures in a 100 mm cell culture plate. Rinse with PBS twice.

Protease Inhibitors

Leupeptin 1 ug/ml

Aprotinin 1 ug/ml

Pepstatin 1 ug/ml

PMSF

Working concentrations:

1 mM

- 2. Detach cells with a rubber policeman in 1 ml cold PBS and transfer cell suspension into a 1.5 ml microcentrifuge tube.
- 3. Pellet cells by centrifuging at 3,000 rpm for 5 min. Remove supernatant.
- 4. Resuspend the pellet in 1 ml cold RIPA buffer with freshly added protease inhibitors.
- 5. Allow the tube to stand on ice for 30 min and vortex.
- 6. Centrifuge the mixture at 20,000 x g at 4°C for 30 min.
- 7. Transfer the supernatant to a new tube. Store lysate at -80°C.

Suspension Cells

- 1. Collect ~ 5x10⁷ cells by low-speed centrifugation at RT for 5 min. Carefully remove culture medium.
- 2. Wash the pellet with PBS at RT and collect by low-speed centrifugation. Carefully remove supernatant.
- 3. Add 1 ml of pre-chilled RIPA buffer with freshly added protease inhibitors. Gently resuspend cells. Incubate at 4°C for 30 min and vortex.
- 4. Transfer to microcentrifuge tube(s) and centrifuge at 20,000 x g at 4°C for 30 min.
- 5. Transfer the supernatant to a new tube. Store cell lysate at -80°C.

II. Run Lysate on SDS-PAGE Gel and Transfer to a Nitrocellulose Membrane

III. Antibody Incubation

- 1. Incubate the membrane in blocking buffer at RT for 30 60 min.
- 2. Incubate the membrane with primary antibody diluted in blocking buffer at 4°C overnight.
- 3. Wash the membrane with TBST for 5 min three times.
- 4. Incubate the membrane with secondary antibody diluted in blocking buffer for 1 hr.
- 5. Wash the membrane with TBST for 5 min three times
- 6. Follow the instructions of your chemiluminescence or other detection reagent.

TBST

Tris-HCl (pH 7.6) 20 mM NaCl 137 mM Tween 20 0.1%

Blocking Buffer

5% non-fat milk in TBST

ICC/IF Protocol

Blocking Buffer:

2.5% BSA in PBS (from the same host species as the secondary antibody)

I. Pre-treatment of Coverslips

- 1. Dip new cover slips into 0.1N HCl solution and keep at RT overnight.
- 2. Wash with three changes of water to eliminate remaining HCI.
- 3. Dip coverslips into 95% ethanol and keep at RT overnight.
- Drain all of the solution and air dry the coverslips.
- 5. Autoclave or fire burn (immediately before using) the coverslips.

II. Cell Seeding, Fixation and Permeabilization

- 1. Place coverslips in a 24-well plate. Seed about 25,000 cells into the well to reach approximately 60-70% confluency the next day.
- 2. Remove the medium and rinse cells twice with PBS.
- 3. Add 1.0 ml of ice-cold methanol into the well and store the plate at -20°C for 5 10 min.
- 4. Remove the methanol, carefully add 1.0 ml PBS to the well and gently shake for 10 min.
- 5. Wash cells with PBS three times, each for 3 min.

III. Primary and Secondary Antibody Incubation

- 1. Block cells with Blocking Buffer for 30 60 min.
- 2. Dilute the primary antibody to desired dilution with blocking buffer.
- Add 200 µL of primary antibody solution into each well and incubate at RT for 1 hr or 4°C overnight (recommended).
- 4. Wash cells with PBS three times, each for 3 min.
- 5. Add 200 μL of secondary antibody (diluted in 1% BSA/PBS) and incubate in RT for 30 60 min.
- 6. Wash cells with PBS three times, each for 3 min.
- Note: Keep the whole plate in the dark during steps 5 and 6 if you are doing immunofluorescence.
- 8. If you are doing immunocytochemical staining, present the target protein by staining with appropriate kits, such as an ABC kit.

IV. Nuclear Staining and Mounting

- A. For immunofluorescence, counter-stain the nuclei with DAPI for 5 min or a shorter period of time. Rinse the cells with PBS twice and then mount the coverslip onto the slide with anti-fade mounting solution.
- B. For immunocytochemistry, counterstain the nucleus with hematoxylin. Rinse the cells with PBS twice and then mount the coversIIp onto the slide.



USA

Toll-free : 1.877.GeneTex (1.877.436.3839) Fax : 1.949.309.2888 Address : 2456 Alton Parkway, Irvine, CA 92606 E-mail : *info*@genetex.com

International

Tel : 886.3.6208988 Fax : 886.3.6209098 Address : 6F-2, No.89, Dongmei Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) E-mail : *info*@genetex.com