

#11911 Store at -20°C

NFI-C Antibody

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cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB, IP | H M R Mk | Endogenous | 55-65 | Rabbit | #P08651 | 4782 |

| Product Usage Information | Application | Dilution |
|---------------------------|--|----------|
| | Western Blotting | 1:1000 |
| | Immunoprecipitation | 1:50 |
| Storage | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody. | |
| Specificity / Sensitivity | NFI-C Antibody recognizes endogenous levels of total NFI-C protein. This antibody also recognizes overexpressed NFI-B protein. | |
| Source / Purification | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala263 of human NFI-C protein. Antibodies are purified by protein A and peptide affinity chromatography. | |
| Background | NFI-C belongs to the nuclear factor I (NFI) family of site-specific transcription factors that regulate viral DNA replication and expression of various genes (1,2). The NFI family is composed of four members in vertebrates: NFI-A, NFI-B, NFI-C, and NFI-X, all of which are critical in the development of multiple organ systems in mice and humans (3). NFI-C is expressed in various tissues and regulates TGF-β dependent tooth development and hair follicle cycling (3-5). Research studies have shown that NFI-C directly represses FoxF1 transcription and suppresses the motility and invasiveness of breast cancer cells (6). | |
| Background References | <ol style="list-style-type: none"> 1. Gronostajski, R.M. (2000) <i>Gene</i> 249, 31-45. 2. Liang, B. et al. (2012) <i>J Virol</i> 86, 3264-75. 3. Steele-Perkins, G. et al. (2003) <i>Mol Cell Biol</i> 23, 1075-84. 4. Lee, D.S. et al. (2009) <i>J Biol Chem</i> 284, 17293-303. 5. Plasari, G. et al. (2010) <i>J Biol Chem</i> 285, 34115-25. 6. Nilsson, J. et al. (2010) <i>Cancer Res</i> 70, 2020-9. | |

| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
|------------------------|---|
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | WB: Western Blotting IP: Immunoprecipitation |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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