

Product Datasheet

NFIA Antibody / Nuclear Factor 1 A (orb2634962)

Description	Nuclear factor (NF) proteins are a family of CCAAT-box-binding proteins that stimulate DNA replication and activate transcription. Analysis of human NF-1 messenger RNA has revealed two forms of the NF-1 protein arising from an alternate splicing of a single NF-1 gene. NF-1 binds its consensus DNA element as a homodimer via an amino-terminal DNA-binding domain, and activates transcription through a putatively novel, proline-rich, carboxy-terminal transactivation domain. The NF-1 protein has been shown to recognize and bind the adenovirus type 2 promoter and activate transcription of herpes simplex virus thymidine kinase genes. The NF-1 consensus element has been found in the upstream promoter region of myriad eukaryotic genes, including that of Ha-Ras, α -globin, HSP 70, GRP 78, Histone H1, myelin basic protein and in the <i>Xenopus laevis</i> vitellogenin gene promoter.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	A recombinant protein fragment was used as the immunogen for the NFIA antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the NFIA antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2c
Clonality	Monoclonal

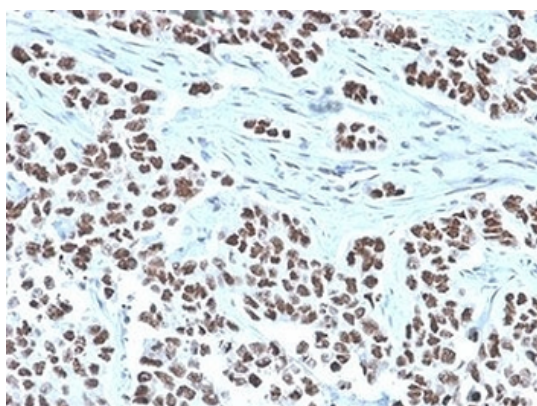
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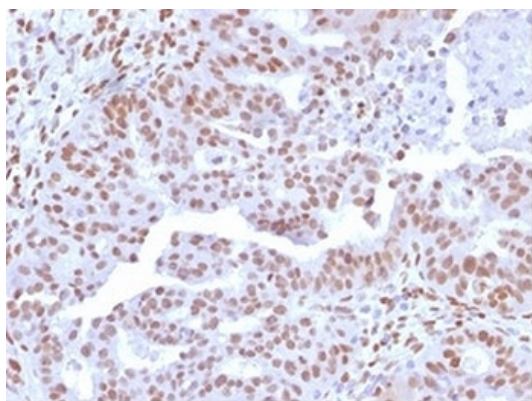
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Clone Number	PCRP-NFIA-2C6
Uniprot ID	Q12857
Hazard Information	This NFIA antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human lung tissue with NFIA antibody (clone PCRP-NFIA-2C6). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



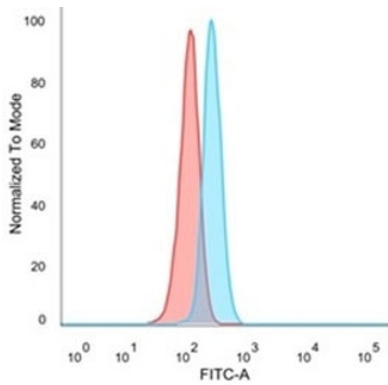
IHC staining of FFPE human colon carcinoma tissue with NFIA antibody (clone PCRP-NFIA-2C6). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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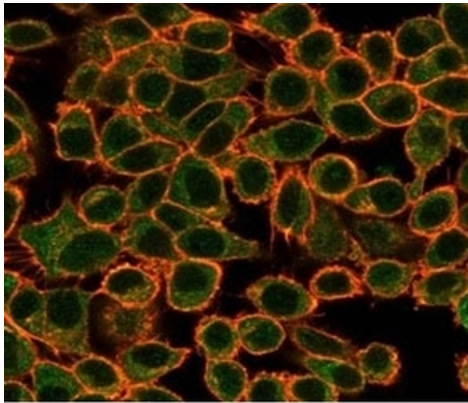
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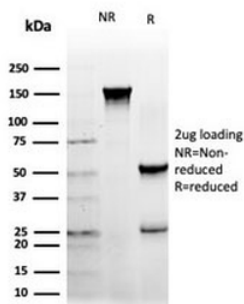
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FACS staining of PFA-fixed human HeLa cells with NFIA antibody (blue, clone PCRPNFIA-2C6) and isotype control (red).



Immunofluorescent staining of PFA-fixed human HeLa cells using NFIA antibody (green, clone PCRPNFIA-2C6) and phalloidin (red).



SDS-PAGE analysis of purified, BSA-free NFIA antibody (clone PCRPNFIA-2C6) as confirmation of integrity and purity.

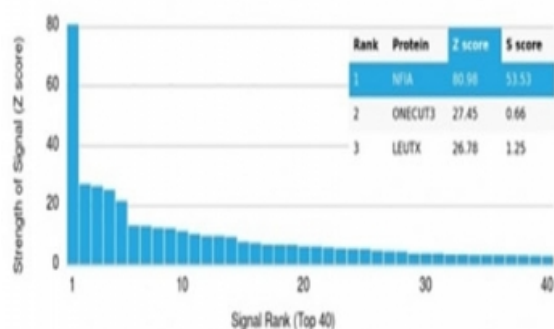
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using NFIA antibody (clone PCRPNFIA-2C6). These results demonstrate the foremost specificity of the PCRPNFIA-2C6 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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