



NFATc4 rabbit pAb

Cat No.:ES2938

For research use only

Overview

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|---------------------------------|--|
| Product Name | NFATc4 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human NFAT3. AA range:642-691 |
| Specificity | NFATc4 Polyclonal Antibody detects endogenous levels of NFATc4 protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Nuclear factor of activated T-cells cytoplasmic 4 |
| Gene Name | NFATC4 |
| Cellular localization | Cytoplasm, cytosol . Nucleus . When hyperphosphorylated, localizes in the cytosol. When intracellular Ca(2+) levels increase, dephosphorylation by calcineurin/PPP3CA leads to translocation into the nucleus (PubMed:11997522, PubMed:18347059). MAPK7/ERK5 and MTOR regulate NFATC4 nuclear export through phosphorylation at Ser-168 and Ser-170 (PubMed:18347059). . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 135kD |





Human Gene ID

4776

Human Swiss-Prot Number

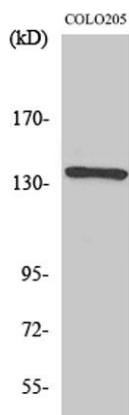
Q14934

Alternative Names

NFATC4; NFAT3; Nuclear factor of activated T-cells; cytoplasmic 4; NF-ATc4; NFATc4; T-cell transcription factor NFAT3; NF-AT3

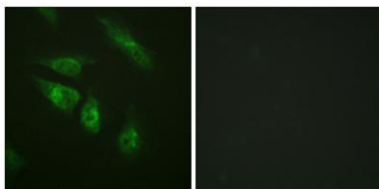
Background

This gene encodes a member of the nuclear factor of activated T cells (NFAT) protein family. The encoded protein is part of a DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor stimulation and an inducible nuclear component. NFAT proteins are activated by the calmodulin-dependent phosphatase, calcineurin. The encoded protein plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of interleukin-2 and interleukin-4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014],



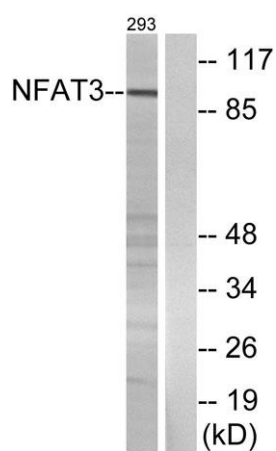
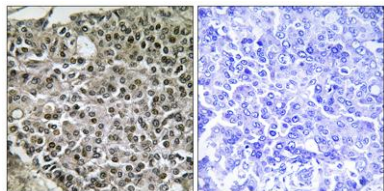
Western Blot analysis of various cells using NFATc4 Polyclonal Antibody diluted at 1:500

Immunofluorescence analysis of HeLa cells, using NFAT3 Antibody. The picture on the right is blocked with the synthesized peptide.





Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using NFAT3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using NFAT3 Antibody. The lane on the right is blocked with the synthesized peptide.

