

## Product datasheet for **AM09061PU-S**

### NFAT2 (NFATC1) Mouse Monoclonal Antibody [Clone ID: AT1C3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT1C3
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western blot</b> (1/1,000-1/2,000). <b>Flow Cytometry.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Paraffin Sections</b> (10 µg/ml). This NFATC1 antibody was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human NFATc1 (aa 428-716) purified from <i>E. coli</i>
Specificity:	The antibody recognizes Human NFATc1. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



[View online »](#)

**Gene Name:** nuclear factor of activated T-cells 1

**Database Link:** [Entrez Gene 4772 Human O95644](#)

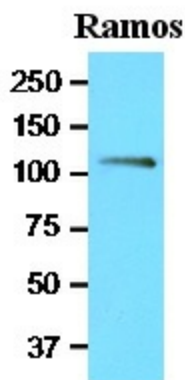
**Background:** Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 (NFATc1) is a component of the nuclear factor of activated T cells DNA-binding transcription complex which consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation, and an inducible nuclear component. This protein plays a main role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2 or IL-4 gene transcription and functions as a major molecular target for the immunosuppressive drugs such as cyclosporine A. NFATc1 is expressed in most human primary lymphocytes and mature human T- and B-cell neoplasms.

**Synonyms:** NF-ATc1, NFATC1, NFATC

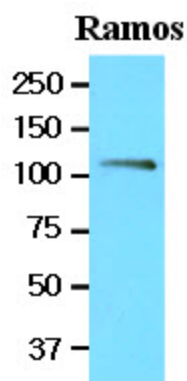
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Axon guidance, B cell receptor signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway

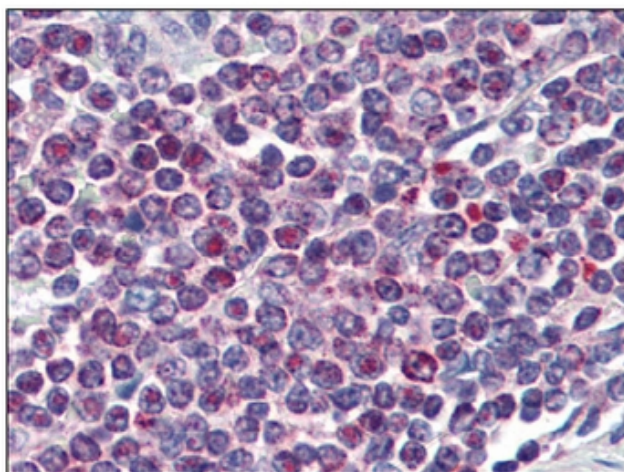
### Product images:



Cell lysates of Ramos (20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human NFATc1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis: Cell lysates of Ramos (20 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human NFATc1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: -N NFATC1 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Spleen at 10 ug/ml followed by biotinylated anti-Mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.