

## Rabbit NFATC1 Polyclonal Antibody | anti-NFATC1 antibody

NFATC1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA170771 | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

NFATC1; Polyclonal Antibody; NFATC1 Antibody; MGC138448; NF-ATC; NFAT2; NFATc; anti-NFATC1 antibody

### PRODUCT SPECIFICATIONS

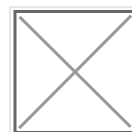
|                                                  |                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                    |
| Reactivity                                       | Human, Mouse, Rat                                                                         |
| Clonality                                        | Polyclonal                                                                                |
| Isotype                                          | IgG                                                                                       |
| Purity/Purification                              | Antigen affinity purification                                                             |
| Concentration                                    | 1mg/mL (varies by lot)                                                                    |
| Sequence Length                                  | 703                                                                                       |
| Applicable Applications for anti-NFATC1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                    |
| Immunogen                                        | Recombinant protein of human NFATC1                                                       |
| Buffer                                           | PBS with 0.02% sodium azide, 50% glycerol, pH7.3                                          |
| Santa Cruz Alternative                           | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-1149 / sc-13033   |
| Preparation and Storage                          | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cell using NFATC1 antibody. Blue: DAPI for nuclear staining.



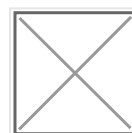
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human stomach using NFATC1 antibody at dilution of 1:200 (x400 lens)



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human esophageal cancer using NFATC1 antibody at dilution of 1:200 (x400 lens)



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using NFATC1 antibody.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NFATC1 antibody | The NFAT (nuclear factor of activated T cells) family of proteins consists of NFAT1 (NFATc2 or NFATp), NFAT2 (NFATc1 or NFATc), NFAT3 (NFATc4), and NFAT4 (NFATc3 or NFATx). All members of this family are transcription factors with a Rel homology domain and regulate gene transcription in concert with AP-1 (Jun/Fos) to orchestrate an effective immune response (1, 2). NFAT proteins are predominantly expressed in cells of the immune system, but are also expressed in skeletal muscle, keratinocytes, and adipocytes, regulating cell differentiation programs in these cells (3). In resting cells, NFAT proteins are heavily phosphorylated and localized in the cytoplasm. Increased intracellular calcium concentrations activate the calcium/calmodulin-dependent serine phosphatase calcineurin, which dephosphorylates NFAT proteins, resulting in their subsequent translocation to the nucleus (2). Termination of NFAT signaling occurs upon declining calcium concentrations and phosphorylation of NFAT by kinases such as GSK-3 or CK1 (3, 4). Cyclosporin A and FK506 are immunosuppressive drugs that inhibit calcineurin and thus retain NFAT proteins in the cytoplasm (5). |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 522022876                                                                                          |
| NCBI GeneID                      | 4772                                                                                               |
| NCBI Accession #                 | NP_001265604.1                                                                                     |
| NCBI GenBank Nucleotide #        | NM_001278675.1                                                                                     |
| Molecular Weight                 | 38,626 Da                                                                                          |
| NCBI Official Full Name          | nuclear factor of activated T-cells, cytoplasmic 1 isoform I                                       |
| NCBI Official Synonym Full Names | nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1                          |
| NCBI Official Symbol             | NFATC1                                                                                             |
| NCBI Official Synonym Symbols    | NFAT2; NFATc; NF-ATC                                                                               |
| NCBI Protein Information         | nuclear factor of activated T-cells, cytoplasmic 1; NFAT transcription complex cytosolic component |
| UniProt Protein Name             | Nuclear factor of activated T-cells, cytoplasmic 1                                                 |
| UniProt Gene Name                | NFATC1                                                                                             |
| UniProt Synonym Gene Names       | NFAT2; NFATC; NF-ATc1; NFATc1; NF-ATc; NFATc                                                       |
| UniProt Entry Name               | NFAC1_HUMAN                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.