

NFATC2 Rabbit mAb

Catalog No.: A30086**Recombinant**

Basic Information

Observed MW

100 kDa/140 kDa

Calculated MW

100 kDa/98 kDa/77 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF/ICC, IF-F, IHC-P, ELISA

Cross Reactivity

Human, Mouse, Rat

Clone No.

ARC3965

Background

This gene is a member of the nuclear factor of activated T cells (NFAT) family. The product of this gene is a DNA-binding protein with a REL-homology region (RHR) and an NFAT-homology region (NHR). This protein is present in the cytosol and only translocates to the nucleus upon T cell receptor (TCR) stimulation, where it becomes a member of the nuclear factors of activated T cells transcription complex. This complex plays a central role in inducing gene transcription during the immune response. Alternate transcriptional splice variants encoding different isoforms have been characterized.

Recommended Dilutions

WB 1:1000 - 1:5000**IP**

0.5 µg - 4 µg antibody for 200 µg - 400 µg extracts of whole cells

IF/ICC 1:200 - 1:800**IF-F** 1:200 - 1:800**IHC-P** 1:1000 - 1:4000**ELISA**

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

4773

Swiss-Prot

Q13469

Immunogen

This information is considered to be commercially sensitive.

Synonyms

JCOSL; NFAT1; NFATP; NFATC2

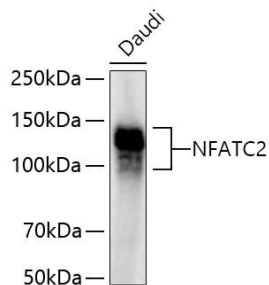
Contact

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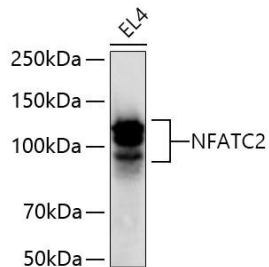
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification
Storage		
Store at -20°C		

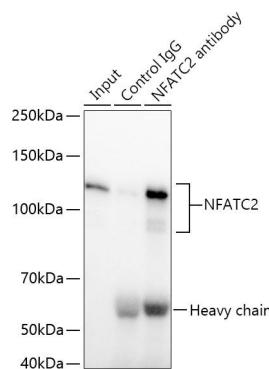
Validation Data



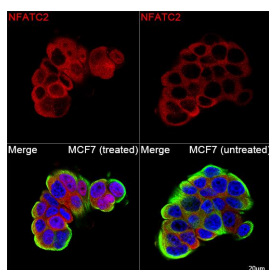
Western blot analysis of lysates from Daudi cells using NFATC2 Rabbit mAb (A30086) at 1:2000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.



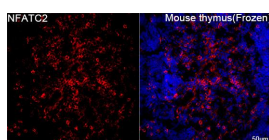
Western blot analysis of lysates from EL4 cells using NFATC2 Rabbit mAb (A30086) at 1:2000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



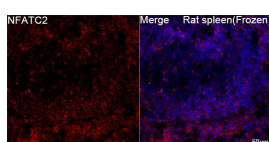
Immunoprecipitation of NFATC2 from 400 µg extracts of Ramos cells was performed using 1 µg of NFATC2 Rabbit mAb (A30086). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using NFATC2 Rabbit mAb (A30086) at a dilution of 1:5000.



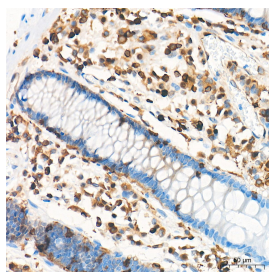
Confocal imaging of MCF7 cells (treated with Ionomycin) and MCF7 cells (untreated) using NFATC2 Rabbit mAb (A30086, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



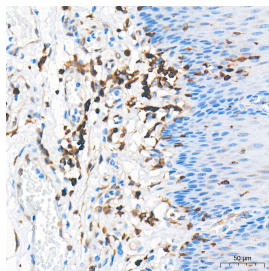
Confocal imaging of frozen sections of Mouse thymus tissue using NFATC2 Rabbit mAb (A30086, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



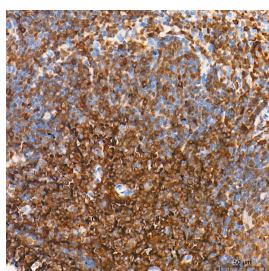
Confocal imaging of frozen sections of Rat spleen tissue using NFATC2 Rabbit mAb (A30086, dilution 1:500) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



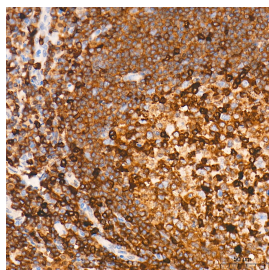
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using NFATC2 Rabbit mAb (A30086) at a dilution of 1:1400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



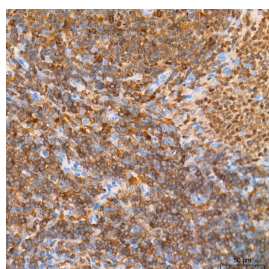
Immunohistochemistry analysis of paraffin-embedded Human esophagus tissue using NFATC2 Rabbit mAb (A30086) at a dilution of 1:1400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using NFATC2 Rabbit mAb (A30086) at a dilution of 1:1400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using NFATC2 Rabbit mAb (A30086) at a dilution of 1:1400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using NFATC2 Rabbit mAb (A30086) at a dilution of 1:1400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.