abcam

ab203206

Anti-NFAM1 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human NFAM1 aa 100-150 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q8NET5
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/500
Notes	Use at 1/50 - 1/200 with fluorescent detection methods. Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information NFAM1

Function	May function in immune system as a receptor which activates via the calcineurin/NFAT-signaling pathway the downstream cytokine gene promoters. Activates the transcription of IL-13 and TNF promoters. May be involved in the regulation of B-cell, but not T-cell, development. Overexpression activates downstream effectors without ligand binding or antibody cross-linking.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	NFAM1 also known as NFAT activating protein with an undefined function 1 is a protein expressed on the surface of immune cells such as B cells and T cells. It consists of approximately 46 kDa. This membrane-associated protein plays a significant role in the activation of nuclear factor of activated T-cells (NFAT) a family of transcription factors integral to immune responses. Researchers originally identified NFAM1 in immune system cells pointing to its immunological relevance.
Biological function summary	The role of NFAM1 involves important signal transduction processes that support immune cell activation and function. NFAM1 likely participates in complex interactions on the cell surface that facilitate NFAT activation although the specific molecular interactions remain under investigation. Evidence suggests that it may integrate signals from various receptors orchestrating immune cell responses and contributing to the adaptive immune system.
Pathways	NFAM1 is notably involved in the NFAT signaling pathway which regulates gene expression essential for immune cell function. This protein interacts closely with other molecules in the pathway including calcineurin a phosphatase critical for NFAT dephosphorylation. Such interactions reinforce NFAM1's role in maintaining effective immune responses. Additionally NFAM1 has a role in the broader context of the T-cell receptor signaling pathway further highlighting its importance in immune regulation.
Associated diseases and disorders	NFAM1's involvement in autoimmune conditions and certain immunodeficiencies stands out. Researchers have linked dysregulation of NFAT signaling where NFAM1 is active to autoimmune diseases such as rheumatoid arthritis. Furthermore improper NFAM1 function may affect T cell-mediated immune responses contributing to specific immunodeficiency disorders. Investigating NFAM1's interactions with proteins such as NFATc1 and its impact on disease progression offers potential avenues for understanding and treating these conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

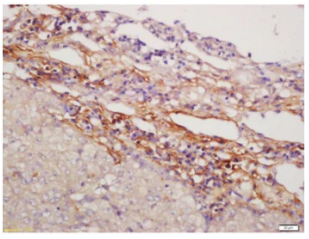
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

---

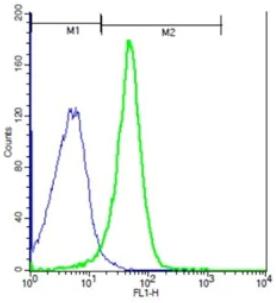
2 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NFAM1 antibody (ab203206)

NFAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-NFAM1 antibody

Immunohistochemical analysis of formalin-fixed and paraffin embedded Human lung carcinoma tissue labeling NFAM1 using ab203206 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.



Flow Cytometry - Anti-NFAM1 antibody (ab203206)

NFAM1 Flow Cytometry staining using rabbit Anti-NFAM1 antibody

Flow cytometry analysis of Mouse splenocytes labeling NFAM1 using ab203206 at 1/100 dilution for 40 minutes (green) followed by a FITC conjugated secondary compared to control cells (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.