

# NFAT5 Polyclonal Antibody

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse
Published Species	Rabbit, Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C D(1439) L L V S L Q N Q G N N L T G S F(1455) of human NFAT5.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2152617

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	24 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	1:1,000	1 Publication
Immunoprecipitation (IP)	3 µg	-
ChIP assay (ChIP)	-	2 Publications
Gel Shift (GS)	Assay-dependent	-

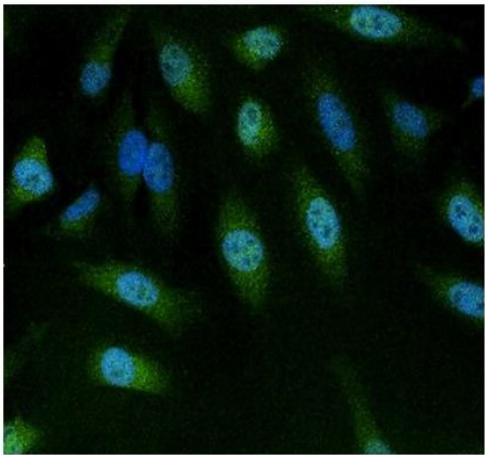
## Product Specific Information

PA1-023 detects nuclear factor of activated T-cells 5 (NFAT5) from human and mouse cells as well as recombinant human protein.

PA1-023 has been successfully used in Western blot, immunofluorescence, immunoprecipitation, gel shift and immunocytochemistry procedures. By Western blot, this antibody detects an ~170 kDa protein representing NFAT5 in HEK293 cells transfected with the human NFAT5 gene. Immunocytochemical staining of NFAT5 in HEK293 cells transfected with the human NFAT5 gene with PA1-023 results in primarily cytoplasmic staining.

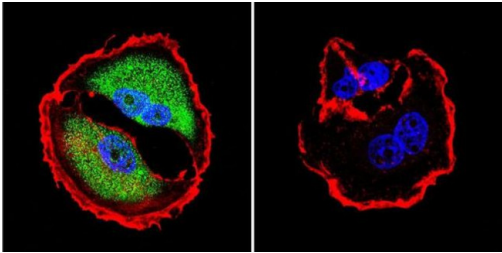
The PA1-023 immunogen is a synthetic peptide corresponding to residues C D(1439) L L V S L Q N Q G N N L T G S F(1455) of human NFAT5. This sequence is 94% conserved in the mouse protein. PA1-023 immunizing peptide (Cat. # PEP-123) is available for use in neutralization and control experiments.

Product Images For NFAT5 Polyclonal Antibody



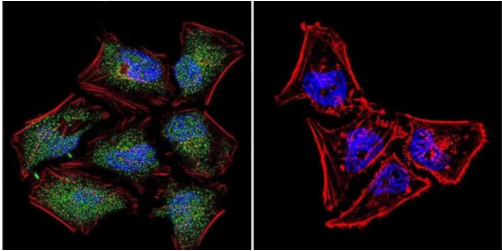
**NFAT5 Antibody (PA1-023) in ICC/IF**

Immunofluorescent analysis of NFAT5 using anti-NFAT5 polyclonal antibody (Product # PA1-023) (shown in green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a rabbit polyclonal antibody recognizing NFAT5 (Product # PA1-023), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were washed with PBS and incubated with DyLight 488 goat-anti-rabbit secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



**NFAT5 Antibody (PA1-023) in ICC/IF**

Immunofluorescent analysis of NFAT5 in MCF-7 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a NFAT5 polyclonal antibody (Product # PA1-023) at a dilution of 1:200 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552). NFAT5 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



**NFAT5 Antibody (PA1-023) in ICC/IF**

Immunofluorescent analysis of NFAT5 in HeLa Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a NFAT5 polyclonal antibody (Product # PA1-023) at a dilution of 1:20 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552). NFAT5 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.

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Western Blot (24)

<p>Scientific reports</p> <p><b>Rac1 deficiency impairs postnatal development of the renal papilla.</b></p> <p>"Published figure using NFAT5 polyclonal antibody (Product # PA1-023) in Western Blot"</p> <p>Authors: Ayuzawa N,Nishimoto M,Kawarazaki W,Oba S,Marumo T,Aiba A,Fujita T</p>	<p>Year</p> <p>2022</p>
<p>Journal of biomedical science</p> <p><b>Interleukin-20 is involved in dry eye disease and is a potential therapeutic target.</b></p> <p>"PA1-023 was used in Western Blotting to demonstrate the functions of IL-20 in DED and presented a potential therapeutic option for this condition."</p> <p>Authors: Wang HH,Chen WY,Huang YH,Hsu SM,Tsao YP,Hsu YH,Chang MS</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>

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Immunohistochemistry (3)

<p>Journal of the Endocrine Society</p> <p><b>Recurrent Amplification of the Osmotic Stress Transcription Factor <i>NFAT5</i> in Adrenocortical Carcinoma.</b></p> <p>"PA1-023 was used in Immunohistochemistry to test whether NFAT5 expression correlated with ion/osmolyte channel and regulatory protein expression patterns in adrenocortical carcinoma."</p> <p>Authors: Brown TC,Nicolson NG,Man J,Gibson CE,Stenman A,Juhlin CC,Korah R,Carling T</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Human</p>
<p>Cell death &amp; disease</p> <p><b>NFAT5 represses canonical Wnt signaling via inhibition of -catenin acetylation and participates in regulating intestinal cell differentiation.</b></p> <p>"Published figure using NFAT5 polyclonal antibody (Product # PA1-023) in Immunohistochemistry"</p> <p>Authors: Wang Q,Zhou Y,Rychahou P,Liu C,Weiss HL,Evers BM</p>	<p>Year</p> <p>2013</p> <p>Species</p> <p>Human</p>

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More applications with references on thermofisher.cn

- ICC/IF (1)
- ChIP (2)

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