

NFATC4 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C R(887) D L S G F P A P P G E E P P A(902) of human NFAT3.
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_2267268

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunohistochemistry (IHC)	1:3000	3 Publications
Immunocytochemistry (ICC/IF)	1:100	3 Publications
Immunoprecipitation (IP)	3 µg	-

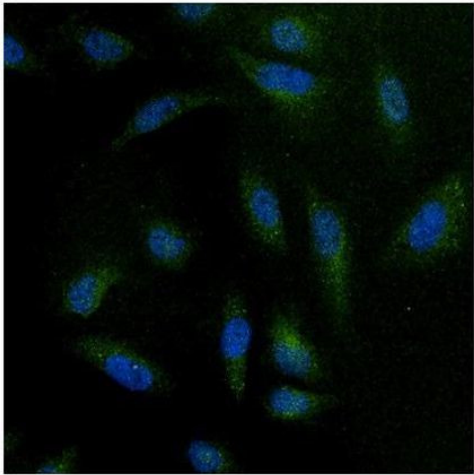
Product Specific Information

PA1-021 detects nuclear factor of activated T-cells 3 (NFAT3) from human cells.

PA1-021 has been successfully used in Western blot immunohistochemistry, immunofluorescence, and immunoprecipitation procedures. By Western blot, this antibody detects an ~150 kDa protein representing NFAT3 in HEK293 cells transfected with the human NFAT3 gene. Immunohistochemical staining of NFAT3 in HEK293 cells transfected with the human NFAT3 gene results in cytoplasmic staining.

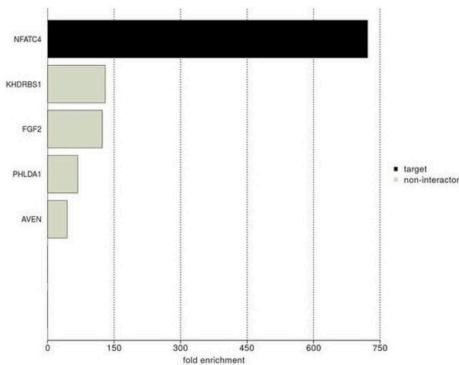
The PA1-021 immunogen is a synthetic peptide corresponding to residues C R(887) D L S G F P A P P G E E P P A(902) of human NFAT3. This sequence is 94% conserved with mouse NFAT3. The PA1-021 immunizing peptide (Cat. # PEP-122) is available for use in neutralization and control experiments.

Product Images For NFATC4 Polyclonal Antibody



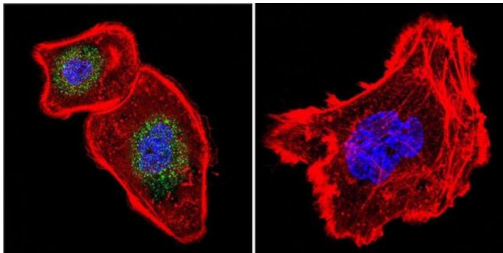
NFATC4 Antibody (PA1-021) in ICC/IF

Immunofluorescent analysis of NFAT3 using anti-NFAT3 polyclonal antibody (Product # PA1-021) (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 NFAT3 (Product # PA1-021), 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.



NFATC4 Antibody (PA1-021)

IP-MS enrichment of NFATC4 (LFQ intensity): NFATC4 was enriched 722-fold from BT549 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and NFATC4 antibody (Product # PA1-021). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. {IP-MS}



NFATC4 Antibody (PA1-021) in ICC/IF

Immunofluorescent analysis of NFAT3 in A431 Cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with a NFAT3 polyclonal antibody (Product # PA1-021) at a dilution of 1:100 overnight at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552). NFAT3 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 (2)

<p>Molecular biology of the cell</p> <p>Nuclear factor of activated T cells (NFAT) signaling regulates PTEN expression and intestinal cell differentiation.</p> <p>"PA1-021 was used in immunohistochemistry and western blot to confirm the role of NFATc1 in PTEN expression and intestinal cell differentiation"</p> <p>Authors: Wang Q,Zhou Y,Jackson LN,Johnson SM,Chow CW,Evers BM</p>	<p>Year 2011</p> <p>Species Human</p>
<p>Molecular and cellular biology</p> <p>Phosphorylation of NFATc4 by p38 mitogen-activated protein kinases.</p> <p>"PA1-021 was used in western blot to study the function of nuclear factor of activated T cells (NFAT) in PPARgamma gene expression and adipocyte differentiation."</p> <p>Authors: Yang TT,Xiong Q,Enslin H,Davis RJ,Chow CW</p>	<p>Year 2002</p> <p>Species Mouse</p> <p>Dilution 1:100</p>

Immunohistochemistry (3)

<p>Stem cell reports</p> <p>Transcriptional Profiling of Hypoxic Neural Stem Cells Identifies Calcineurin-NFATc4 Signaling as a Major Regulator of Neural Stem Cell Biology.</p> <p>"Published figure using NFATC4 polyclonal antibody (Product # PA1-021) in Immunofluorescence"</p> <p>Authors: Moreno M,Fernández V,Monllau JM,Borrell V,Lerin C,de la Iglesia N</p>	<p>Year 2015</p>
<p>Molecular biology of the cell</p> <p>Nuclear factor of activated T cells (NFAT) signaling regulates PTEN expression and intestinal cell differentiation.</p> <p>"PA1-021 was used in immunohistochemistry and western blot to confirm the role of NFATc1 in PTEN expression and intestinal cell differentiation"</p> <p>Authors: Wang Q,Zhou Y,Jackson LN,Johnson SM,Chow CW,Evers BM</p>	<p>Year 2011</p> <p>Species Human</p>

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ICC/IF (3)

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