Datasheet for ABIN1402926

anti-NFAT5 antibody (pSer1197) (AbBy Fluor® 647)

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Overview

Quantity:	100 µL
Target:	NFAT5
Binding Specificity:	pSer1197
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFAT5 antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human NFAT5 around the phosphorylation site of Ser1197
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	NFAT5
Alternative Name:	NFAT5 (NFAT5 Products)
Background:	Synonyms: NFAT5 phospho S1197, p-NFAT5phospho S1197, Glutamine rich protein H65,

Target Details

	KIAA0827, NF AT5, NF-AT5, NFAT 5, NFAT L1, NFAT like protein 1, NFAT5, NFAT5_HUMAN, NFATL 1, NFATL1, NFATZ, Nuclear factor of activated T cells 5, Nuclear factor of activated T cells 5 tonicity responsive, Nuclear factor of activated T cells, Nuclear factor of activated T-cells 5, OREBP, Osmotic response element binding protein, T cell transcription factor NFAT 5, T cell transcription factor NFAT5, T-cell transcription factor NFAT5, TonE binding protein, TonE-binding protein , TonEBP, Tonicity responsive enhancer binding protein, Tonicity-responsive enhancer-binding protein. Background: Members of the NFAT (nuclear factor of activated T cells) family of transcription factors are related to NFkB/Rel proteins and form cooperative complexes with the AP-1 proteins, Fos and Jun, on DNA to regulate cytokine expression in T cells. NFAT proteins are widely expressed and alternatively modified to generate splice variants, and they are localized to both the cytosol (NFATc) and to the nucleus (NFATn). NFAT1, NFAT2, and NFAT4 are predominantly expressed in immune cells, and NFAT2 and NFAT3 are expressed at high levels in cardiac tissues. In addition to activating cytokine gene transcription, NFAT2 is also implicated in cardiac valve development, and NFAT3 is involved in cardiac hypertrophy. NFAT5 is detected in both immune and nonimmune cells and, like other NFAT proteins, contains a highly conserved Rel-like binding domain that mediates NFAT proteins associating with specific consensus sequences on DNA. NFAT proteins are activated by increases in intracellular calcium, which leads to the calmodulin-dependent phosphatase, calcineurin, dephosphorylating NFAT proteins. This activating event induces a conformational change in the protein structure that exposes the nuclear localization signal and facilitates the translocation of NFAT proteins from the cytosol into the nucleus.
Gene ID:	10725
Pathways:	RTK Signaling, WNT Signaling

Application Details

Application Notes:	IF(IHC-P) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and

Handling

	50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months