Human NFATC1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5640

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NFATC1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NFATC1 Ala48-Ser406 Accession # O95644
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

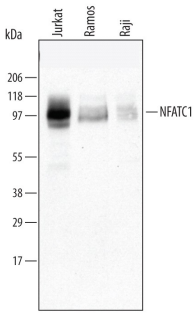
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

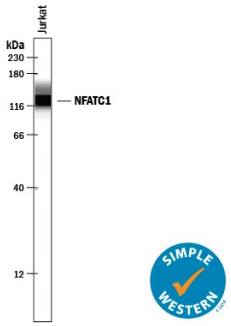
DATA

Western Blot



Detection of Human NFATC1 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, Ramos human Burkitt's lymphoma cell line, and Raji human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human NFATC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5640) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for NFATC1 at approximately 110 - 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human NFATC1 by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for NFATC1 at approximately 124 kDa (as indicated) using 10 µg/mL of Goat Anti-Human NFATC1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5640) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

NFATC1 (Nuclear factor of activated T cells c1; also NFAT2a) is a 120 kDa member of the NFAT family of transcription factors. NFATC1 is found in T cells and mast cells, and regulates cytokine transcription. NFATC1 is normally cytoplasmic and phosphorylated at Ser172. Upon a rise in intracellular Ca^{+2}, dephosphorylation occurs via calcineurin, and NFATC1 enters the nucleus. Human NFATC1 is 943 amino acids (aa) in length. It contains a calcineurin-binding site (aa 118-123), two transactivation domains (aa 126-218 and 703-943), two NLSs (aa 265-267 and 682-684), an NES (aa 310-321) and an RHD that binds DNA (aa 410-592). There are multiple isoforms. Individually or in common, there is an alternate start site at Met473, a deletion of aa 826-943, a 29 aa substitution for aa 1-42, and a 19 aa substitution for aa 698-943.

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