

**DESCRIPTION**

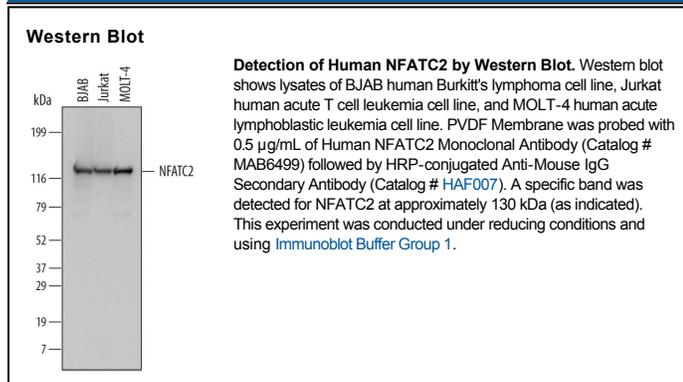
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human NFATC2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human NFATC1 or C3 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 639402
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human NFATC-2 His575-Pro679 Accession # Q13469
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

NFATC2 (Nuclear factor of activated T cells C2; also NFAT1 or NFAT2P) is a 135 kDa member of the NFAT family of transcription factors. NFATC2 is found in T cells and mast cells where it regulates cytokine transcription, Th2 cell differentiation, and cell cycle entry. The transactivation function of NFATC2 is regulated by phosphorylation at Ser53, Ser56, Thr116, and Ser170. Human NFATC2 is 925 amino acids (aa) in length. It contains a calcineurin-binding site (aa 111-116), a transactivation domain (aa 119-199), two NLS (aa 251-253 and 664-666), an RHD that binds DNA (aa 392-574), and one NES (aa 904-913). An alternate splice form has a substitution of the C-terminal 18 amino acids. Human NFATC2 shares 96% aa identity with mouse and rat NFATC2.