

## Product Datasheet

### Anti-NFATc1 Rabbit pAb



For Research Use Only. Not For Use In Diagnostic Procedures

WL01632

#### Product Information

Product name	Anti-NFATc1 Rabbit pAb	
Source	Rabbit	
Species reactivity	Human, Mouse, Rat	
Tested applications	WB	1:1000-1:2000
	IHC	1:100-1:300
Cellular localization	Cytoplasm, Nucleus	
Pack size	50/100/200/500/1000µl	
Storage	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

#### General Information

**Background**

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). NFATc1 (NFATc), NFATc2 (NFATp) and NFATc3 (NFAT4, NFSTx) are predominantly expressed in immune cells, and NFAT2 and NFATc4 are expressed at high levels in cardiac tissues. The NFAT (nuclear factor of activated T cells) family of proteins consists of NFAT1 (NFATc2 or NFATp), NFAT2 (NFATc1 or NFATc), NFAT3 (NFATc4), and NFAT4 (NFATc3 or NFATx). In resting cells, NFAT proteins are heavily phosphorylated and localized in the cytoplasm. Increased intracellular calcium concentrations activate the calcium/calmodulin-dependent serine phosphatase calcineurin, which dephosphorylates NFAT proteins, resulting in their subsequent translocation to the nucleus.

**Immunogen**

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of NFATc1.

**Purification**

Polyclonal antibody was purified by protein A affinity chromatography.

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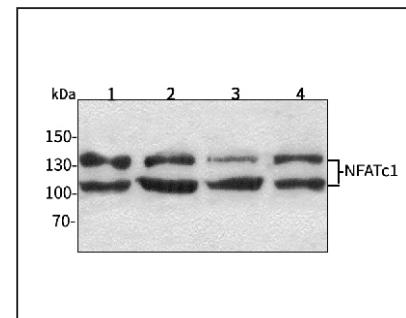
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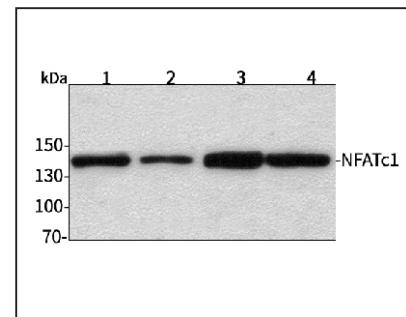
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#### Product Images



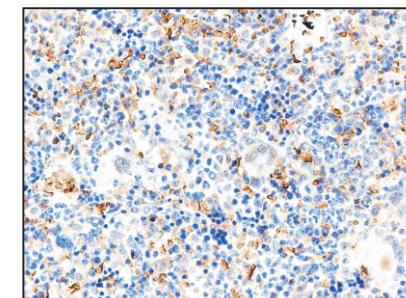
##### Western blot-Anti-NFATc1 pAb

Lane 1: Human HepG2 cell lysate  
 Lane 2: Human HeLa cell lysate  
 Lane 3: Human BGC-823 cell lysate  
 Lane 4: Human MGC-803 cell lysate  
 All lanes: Anti-NFATc1 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 101,78 kDa  
 Observed band size: 82-140 kDa



##### Western blot-Anti-NFATc1 pAb

Lane 1: Mouse testicle tissue lysate  
 Lane 2: Mouse brain tissue lysate  
 Lane 3: Rat liver tissue lysate  
 Lane 4: Rat heart tissue lysate  
 All lanes: Anti-NFATc1 at 1:1000 dilution  
 Lysates/proteins at 20-50 µg per lane.  
 Predicted band size: 101,78 kDa  
 Observed band size: 82-140 kDa



##### Immunohistochemistry-Anti-NFATc1 pAb

Immunohistochemical analysis of paraffin-embedded rat spleen using anti-NFATc1 Rabbit Antibody at 1:200 dilution.  
 Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0