

**NFATc3 (phospho Ser165) Polyclonal Antibody**

<b>Catalog No :</b>	YP0529
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	NFAT4
<b>Fields :</b>	>>MAPK signaling pathway;>>cGMP-PKG signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>Axon guidance;>>C-type lectin receptor signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Oxytocin signaling pathway;>>Yersinia infection;>>Hepatitis B;>>Human cytomegalovirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Human immunodeficiency virus 1 infection;>>PD-L1 expression and PD-1 checkpoint pathway in cancer;>>Lipid and atherosclerosis
<b>Gene Name :</b>	NFATC3
<b>Protein Name :</b>	Nuclear factor of activated T-cells cytoplasmic 3
<b>Human Gene Id :</b>	4775
<b>Human Swiss Prot No :</b>	Q12968
<b>Mouse Swiss Prot No :</b>	P97305
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human NFAT4 around the phosphorylation site of Ser165. AA range:131-180
<b>Specificity :</b>	Phospho-NFATc3 (S165) Polyclonal Antibody detects endogenous levels of NFATc3 protein only when phosphorylated at S165.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.

---

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

---

**Concentration :** 1 mg/ml

---

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

---

**Observed Band :** 115kD

---

**Cell Pathway :** WNT;WNT-T CELL Axon guidance;VEGF;Natural killer cell mediated cytotoxicity;T\_Cell\_Receptor;B\_Cell\_Antigen;

---

**Background :** The product of this gene is a member of the nuclear factors of activated T cells DNA-binding transcription complex. This complex consists of at least two components: a preexisting cytosolic component that translocates to the nucleus upon T cell receptor (TCR) stimulation and an inducible nuclear component. Other members of this family participate to form this complex also. The product of this gene plays a role in the regulation of gene expression in T cells and immature thymocytes. Several transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Nov 2010],

---

**Function :** domain:Rel Similarity Domain (RSD) allows DNA-binding and cooperative interactions with AP1 factors.,function:Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2.,PTM:Phosphorylated by NFATC-kinase; dephosphorylated by calcineurin.,similarity:Contains 1 RHD (Rel-like) domain.,subcellular location:Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription.,subunit:Member of the multicomponent NFATC transcription complex that consists of at least two components, a pre-existing cytoplasmic component NFATC2 and an inducible nuclear compo

---

**Subcellular Location :** Cytoplasm . Nucleus . Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin-mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription.

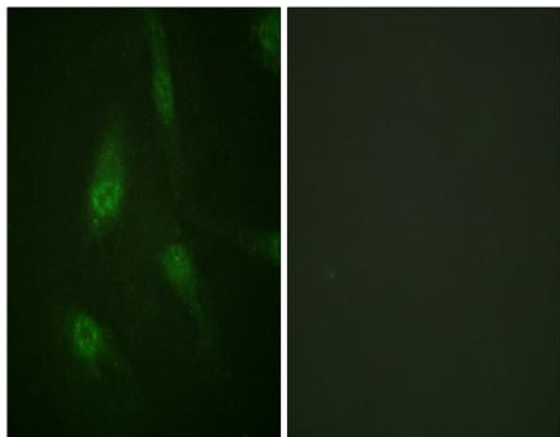
---

**Expression :** Isoform 1 is predominantly expressed in thymus and is also found in peripheral blood leukocytes and kidney. Isoform 2 is predominantly expressed in skeletal muscle and is also found in thymus, kidney, testis, spleen, prostate, ovary, small intestine, heart, placenta and pancreas. Isoform 3 is expressed in thymus and

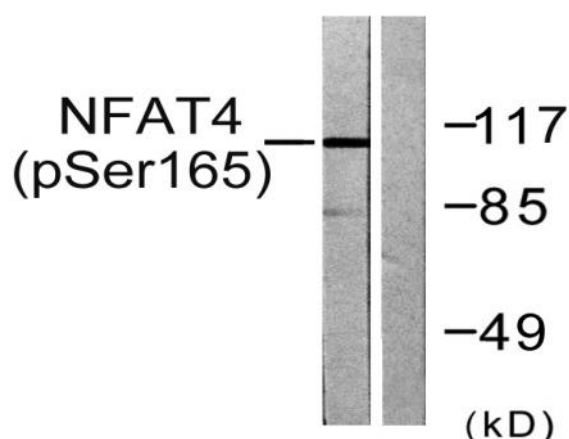
---

kidney. Isoform 4 is expressed in thymus and skeletal muscle.

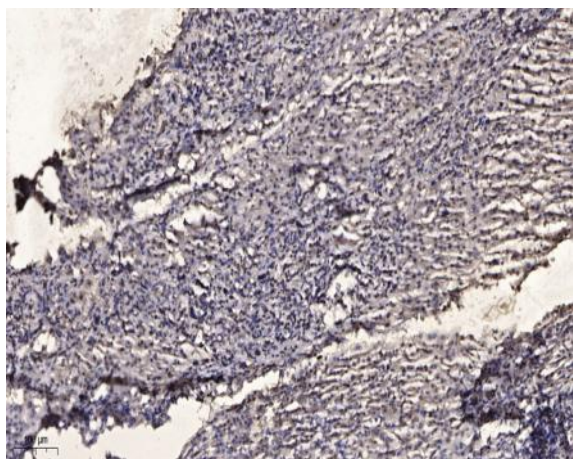
## Products Images



Immunofluorescence analysis of HeLa cells, using NFAT4 (Phospho-Ser165) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with Ca<sup>+</sup> 40nM 30', using NFAT4 (Phospho-Ser165) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).