

## Product datasheet

# Anti-NFAT4/NF-ATc3 (phospho S165) antibody ab59204

★★★★★ [2 Abreviews](#) [3 References](#) [1 Image](#)

### Overview

<b>Product name</b>	Anti-NFAT4/NF-ATc3 (phospho S165) antibody
<b>Description</b>	Rabbit polyclonal to NFAT4/NF-ATc3 (phospho S165)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human NFAT4/NF-ATc3 aa 100-200 (phospho S165). (Around the phosphorylation site of serine 165 (SPSPPA)) Database link: <a href="#">Q12968</a>
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
	Without Mg+2 and Ca+2
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab59204 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration. PubMed: 21889978
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 116 kDa (predicted molecular weight: 116 kDa).

## Target

### Function

Plays a role in the inducible expression of cytokine genes in T-cells, especially in the induction of the IL-2.

### Tissue specificity

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.

### Sequence similarities

Contains 1 RHD (Rel-like) domain.

### Domain

Rel Similarity Domain (RSD) allows DNA-binding and cooperative interactions with AP1 factors.

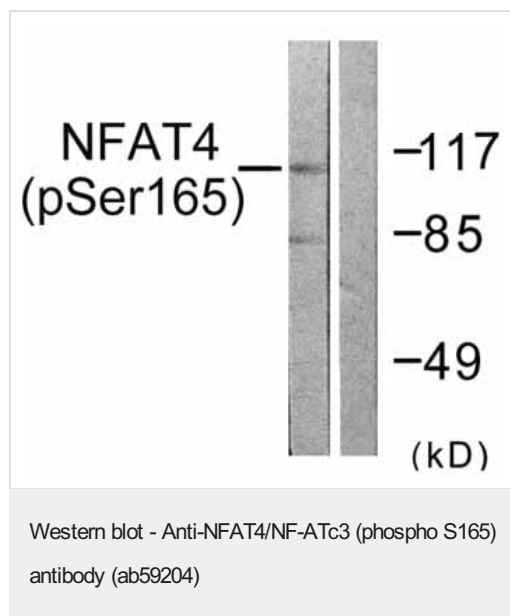
### Post-translational modifications

Phosphorylated by NFATC-kinase; dephosphorylated by calcineurin.

### Cellular localization

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.

## Images



**All lanes :** Anti-NFAT4/NF-ATc3 (phospho S165) antibody (ab59204) at 1/500 dilution

**Lane 1 :** HeLa cells treated with calcium (40nM, 30 mins)

**Lane 2 :** HeLa cells treated with calcium (40nM, 30 mins) with immunizing phosphopeptide

**Predicted band size:** 116 kDa

**Observed band size:** 116 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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