

Product datasheet

NFATC4 peptide ab4979

製品の概要

製品名 NFATC4 peptide

製品の詳細

由来 Synthetic

アミノ酸配列

配列 A 16 amino acid synthetic peptide whose sequences are derived from amino acids 887-902 of human Max1 K+ alpha protein: R(887)DLSGFPAPPGEPPA(902).

領域 887 to 902

特性

Our [Abpromise guarantee](#) covers the use of **ab4979** in the following tested applications.

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

アプリケーション Neutralising
Blocking - Blocking peptide for Anti-NFATC4 antibody ([ab3447](#))

製品の状態 Liquid

備考 This peptide may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and human NFAT 3, catalog [ab3447](#). Using a solution of peptide of equal volume and concentration to the corresponding antibody will yield a large molar excess of peptide (~ 70-fold) for competitive inhibition of antibody-protein binding reactions.

前処理および保存

保存方法および安定性 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

関連情報

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

the IL-2 and IL-4. Transcriptionally repressed by estrogen receptors; this inhibition is further enhanced by estrogen. Increases the transcriptional activity of PPARG and has a direct role in adipocyte differentiation. May play an important role in myotube differentiation. May play a critical role in cardiac development and hypertrophy. May play a role in deafferentation-induced apoptosis of sensory neurons.

組織特異性

Highly expressed in placenta, lung, kidney, testis and ovary. Weakly expressed in spleen and thymus. Not expressed in peripheral blood lymphocytes. Detected in hippocampus.

配列類似性

Contains 1 IPT/TIG domain.
Contains 1 RHD (Rel-like) domain.

ドメイン

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

翻訳後修飾

Phosphorylated by NFATC-kinases; dephosphorylated by calcineurin. Phosphorylated on Ser-168 and Ser-170 by MTOR, IRAK1, MAPK7 and MAPK14, on Ser-213 and Ser-217 by MAPK8 and MAPK9, and on Ser-289 and Ser-344 by RPS6KA3. Phosphorylated by GSK3B. Ubiquitinated, leading to its degradation by the proteasome and reduced transcriptional activity. Ubiquitination and reduction in transcriptional activity can be further facilitated through GSK3B-dependent phosphorylation. Polyubiquitin linkage is mainly through 'Lys-48'.

細胞内局在

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.

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