

Product datasheet

RanBP2 peptide ab4939

概述

产品名称 RanBP2多肽

描述

性质 Synthetic

技术指标

Our [Abpromise guarantee](#) covers the use of **ab4939** in the following tested applications.

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

应用 Blocking

形式 Liquid

补充说明

This peptide may be used for neutralization and control experiments with the polyclonal antibody that reacts with this product and human RanBP 2, catalog [ab2938](#). 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.

制备和贮存

稳定性和存储 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.

常规信息

功能 E3 SUMO-protein ligase which facilitates SUMO1 and SUMO2 conjugation by UBE2I. Involved in transport factor (Ran-GTP, karyopherin)-mediated protein import via the F-G repeat-containing domain which acts as a docking site for substrates. Could also have isomerase or chaperone activity and may bind RNA or DNA. Component of the nuclear export pathway. Specific docking site for the nuclear export factor exportin-1.

通路 Protein modification; protein sumoylation.

疾病相关 Defects in RANBP2 are the cause of susceptibility to encephalopathy acute necrotizing type 1 (ANE1) [MIM:608033]. A rapidly progressive encephalopathy manifesting in susceptible

individuals with seizures and coma. It can occur within days in otherwise healthy children after common viral infections such as influenza and parainfluenza, without evidence of viral infection of the brain or inflammatory cell infiltration. Brain T2-weighted magnetic resonance imaging reveals characteristic symmetric lesions present in the thalami, pons and brainstem.

序列相似性

Contains 1 PPlase cyclophilin-type domain.
Contains 4 RanBD1 domains.
Contains 8 RanBP2-type zinc fingers.
Contains 1 TPR repeat.

结构域

Contains F-X-F-G repeats.

翻译后修饰

Polyubiquitinated by PARK2, which leads to proteasomal degradation.

细胞定位

Nucleus > nuclear pore complex. Cytoplasmic filaments.

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