abcam

Product datasheet

Recombinant Human NIR2 protein ab127088

Overview

Product name	Recombinant Human NIR2 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Accession	O00562
Species	Human
Molecular weight	27 kDa
Amino acids	213 to 468

Specifications

Our Abpromise guarantee covers the use of **ab127088** in the following tested applications.

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

Applications	SDS-PAGE
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. Constituents: 0.32% Tris HCl, 0.58% Sodium chloride
Reconstitution	Reconstitute with water to desired concentration.

General Info

Function	Regulates RHOA activity, and plays a role in cytoskeleton remodeling. Necessary for normal completion of cytokinesis. Plays a role in maintaining normal diacylglycerol levels in the Golgi apparatus. Binds phosphatidyl inositol phosphates (in vitro). May catalyze the transfer of phosphatidylinositol and phosphatidylcholine between membranes (By similarity). Necessary for

	maintaining the normal structure of the endoplasmic reticulum and the Golgi apparatus. Required for protein export from the endoplasmic reticulum and the Golgi. Binds calcium ions.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the PtdIns transfer protein family. PI transfer class IIA subfamily. Contains 1 DDHD domain.
Post-translational modifications	Phosphorylated on multiple sites by CDK1 at the onset of mitosis. Phosphorylation facilitates dissociation from the Golgi complex and is required for interaction with PLK1. Phosphorylated on threonine residues upon treatment with oleic acid. Phosphorylated on tyrosine residues by PTK2B.
Cellular localization	Cytoplasm. Golgi apparatus > Golgi stack membrane. Endoplasmic reticulum membrane. Lipid droplet. Cleavage furrow. Midbody. Peripheral membrane protein associated with Golgi stacks in interphase cells. A minor proportion is associated with the endoplasmic reticulum. Associated with lipid droplets. Dissociates from the Golgi early on in mitosis and localizes to the cleavage furrow and midbody during cytokinesis.

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

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