



Anti-NIR2 antibody ab221381

[1 References](#) [1 Image](#)

Overview

Product name	Anti-NIR2 antibody
Description	Rabbit polyclonal to NIR2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human NIR2 aa 550-700. Database link: O00562
	 Run BLAST with  Run BLAST with
Positive control	HaCaT cells.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab221381 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
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

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.

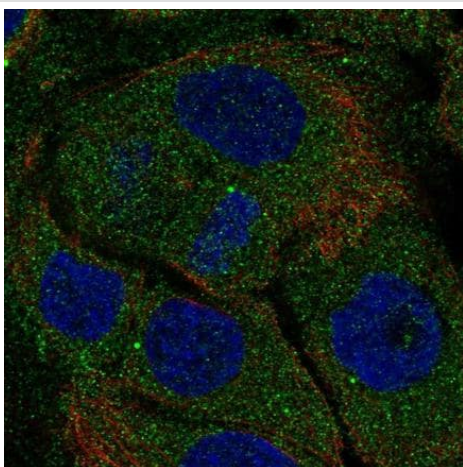
Post-translational modifications

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.

Images



Immunofluorescent analysis of PFA-fixed, Triton X-100 permeabilized HaCaT cells labeling NIR2 with ab221381 at 4 µg/ml (green).

Immunocytochemistry/ Immunofluorescence - Anti-NIR2 antibody (ab221381)

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