

Anti-PREX2 antibody ab121462

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Overview

Product name	Anti-PREX2 antibody
Description	Rabbit polyclonal to PREX2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	antigen, corresponding to amino acids 686-835 of Human PREX2
Positive control	Human stomach tissue
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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
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 ab121462 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
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 1 - 4 µg/ml. Recommend PFA Fixation and Triton X-100 treatment

Target

Function

Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by exchanging bound GDP for free GTP. Its activity is synergistically activated by phosphatidylinositol-3,4,5-triphosphate and the beta gamma subunits of heterotrimeric G protein. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and phosphoinositide 3-kinase.

Tissue specificity

Isoform 1 is highly expressed in skeletal muscle, heart and placenta, absent from peripheral blood leukocytes. Isoform 2 is expressed in skeletal muscle, kidney, small intestine, and placenta. Isoform 3 is expressed in the heart.

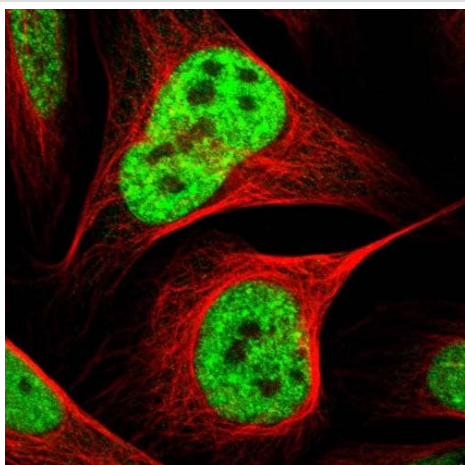
Sequence similarities

Contains 2 DEP domains.
Contains 1 DH (DBL-homology) domain.
Contains 2 PDZ (DHR) domains.
Contains 1 PH domain.

Domain

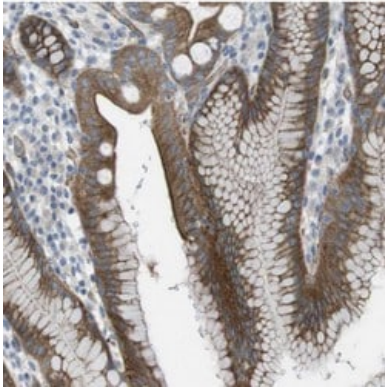
PH domain confers substrate specificity and recognition. Able to discriminate between RAC1, RHOA, and CDC42.
DH domain alone was unable to confer substrate specificity and recognition.

Images



Immunofluorescent staining of Human cell line U-2 OS shows positivity in nuclei but not nucleoli. Recommended concentration of ab121462 1-4 µg/ml. Cells treated with PFA/Triton X-100.

Immunocytochemistry/ Immunofluorescence - Anti-
PREX2 antibody (ab121462)



ab121462 at a 1/725 dilution staining PREX2 in Human stomach tissue (paraffin embedded) by immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PREX2 antibody (ab121462)

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

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