

Recombinant Human RAB29 protein ab160266

1 Image

Description	
Product name	Recombinant Human RAB29 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSRDHLFKVLVVGDAAVGKTSLVQRYSQDSFSKHYKST VGVDFALKVLQ WSDYEIVRLQLWDIAGQERFTSMTRLYYRDASACVIMFDV TNATTFSNSQ RWKQDLDSKLTLPNGEPVPCLLLANKCDLSPWAVSRDQI DRFSKENGFTG WTETSVKENKNINEAMRVLIEKMMRNSTEDIMSLSTQGDYI NLQTKSSSW SCC
Amino acids	1 to 203
Tags	GST tag N-Terminus

Specifications	
Our Abpromise guarantee covers the use of ab160266 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	ELISA Western blot
Form	Liquid
Additional notes	

Preparation and Storage	
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans-Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during *Salmonella enterica* serovar Typhi (S.Typhi) epithelial cell infection.

Tissue specificity

Ubiquitous.

Sequence similarities

Belongs to the small GTPase superfamily. Rab family.

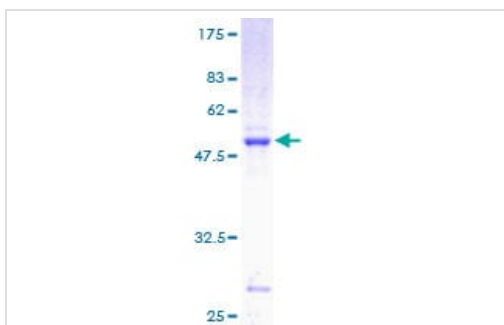
Post-translational modifications

In case of *Salmonella enterica* serovar Typhimurium (S.Typhimurium) infection, is proteolytically cleaved between Gly-41 and Val-42 by the GtgE viral protease encoded on the Gifsy-2 lysogen bacteriophage, which therefore prevents the recruitment of RAB29 to S.Typhimurium-containing vacuoles. In contrast, no proteolytic cleavage is detected in S.Typhi-infected cells (PubMed:22042847).

Cellular localization

Cell membrane. Cytoplasm. Cytoplasm, perinuclear region. Golgi apparatus. Golgi apparatus, trans-Golgi network. Vacuole. Cytoplasm, cytoskeleton. Colocalizes with LRRK2 along tubular structures emerging from Golgi apparatus (By similarity). Colocalizes with GM130 at the Golgi apparatus. Colocalizes with dynamic tubules emerging from and retracting to the Golgi apparatus. Colocalizes with TGN46 at the trans-Golgi network (TGN). In *Salmonella enterica* serovar Typhi (S.Typhi) infected epithelial cells, is recruited and colocalized with both S.Typhi-containing vacuoles and dynamic tubules as well as those emerging from the vacuole toward the cell periphery.

Images



SDS-PAGE - Recombinant Human RAB29 protein
(ab160266)

ab160266 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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