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Rabbit Anti-GGA2/AF350 Conjugated antibody

SL13344R-AF350

Product Name	Anti-GGA2/AF350
Chinese Name	AF350 标记的 γ-衔接蛋白相关蛋白 2 抗体
Alias	1200007E24Rik; ADP ribosylation factor binding protein 2; ADP ribosylation factor binding protein GGA 2; ADP ribosylation factor binding protein GGA2; ADP-ribosylation factor-binding protein GGA2; ARF-binding protein 2; FLJ20966; Gamma adaptin related protein 2; gamma ear-containing; Gamma-adaptin-related protein 2; GGA 2; Gga2; GGA2_HUMAN; Golgi associated gamma adaptin ear containing ARF binding protein 2; Golgi localized gamma ear containing ARF binding protein 2; Golgi-localized; KIAA1080; Vear; VHS domain and ear domain containing protein; VHS domain and ear domain of gamma adaptin; VHS domain and ear domain of gamma-adaptin.
Research Area	Cardiovascular Cell biology Signal transduction Transporter
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	67kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GGA2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH

7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail

background:
A family of proteins, the GGAs (Golgi-localized, g-adaptin ear-containing, ARF-binding proteins) sequences that showed significant homology to the carboxy-terminal 'ear' domain of g-adaptin. Members of the GGA family (GGA1,GGA2 (also known as VEAR or VHS domain and ear domain of g-adaptin) and GGA3) are ubiquitous coat proteins that facilitate the trafficking of proteins between the trans-Golgi network and the lysosome. However, unlike g-adaptin, the GGAs are not associated with clathrin-coated vesicles or with any of the components of the AP-1 complex. GGA1 and GGA2 are also not associated with each other, although they colocalize on perinuclear membranes. GGA2 shares 45% amino acid sequence identity with GGA1 and 35% with GGA3. In addition to being involved in heterotypic vesicle/suborganelle interactions associated with the Golgi complex, GGA2 may have a tissue-specific function and is highly expressed in kidney, muscle and heart. Furthermore, the VHS domain of GGA2 binds to the acidic cluster-di-leucine motif in the cytoplasmic tail of the cation-independent mannose 6-phosphate receptor (CI-MPR) and this is important for lysosomal enzyme targeting.

Function:
Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (AC-LL) motif.

Subunit:
Monomer. Interacts with NECAP1, TSG101, UBC and AFTPH/aftiphilin. Interacts with CNST (By similarity). Interacts with GGA1 and GGA3. Binds to clathrin and activated ARFs. Binds RABEP1 and RABGEF1. Interacts with the type-I membrane proteins SORT1, SORL1, LRP3, M6PR/CD-MPR, IGF2R/CI-MPR and BACE1. Binds the accessory proteins CCDC91, P200, SYNRG, EPN4 and NECAP2.

Subcellular Location:
Golgi apparatus; trans-Golgi network membrane. Endosome membrane.

Tissue Specificity:
Ubiquitously expressed.

Post-translational modifications:
Ubiquitinated.

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Similarity:
Belongs to the GGA protein family.
Contains 1 GAE domain.
Contains 1 GAT domain.
Contains 1 VHS domain.

Database links:
UniProtKB/Swiss-Prot: Q9UJY4.3

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.