



Rabbit Anti-GGA2 antibody

SL13344R

Product Name:	GGA2
Chinese Name:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	67kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GGA2:161-260/613
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

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.

Product Detail:**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.

Similarity:

Belongs to the GGA protein family.

Contains 1 GAE domain.

Contains 1 GAT domain.

Contains 1 VHS domain.

SWISS:

Q9UJY4

Gene ID:
23062

Database links:

[Entrez Gene: 23062](#)Human

[Entrez Gene: 74105](#)Mouse

[Entrez Gene: 293455](#)Rat

[Oimim: 606005](#)Human

[SwissProt: Q9UJY4](#)Human

[SwissProt: Q6P5E6](#)Mouse

[Unigene: 460336](#)Human

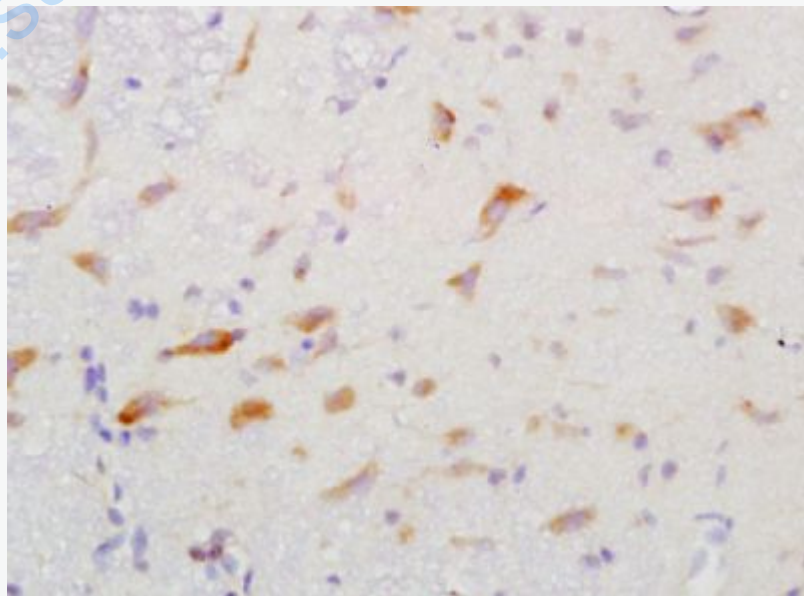
[Unigene: 29619](#)Mouse

[Unigene: 18248](#)Rat

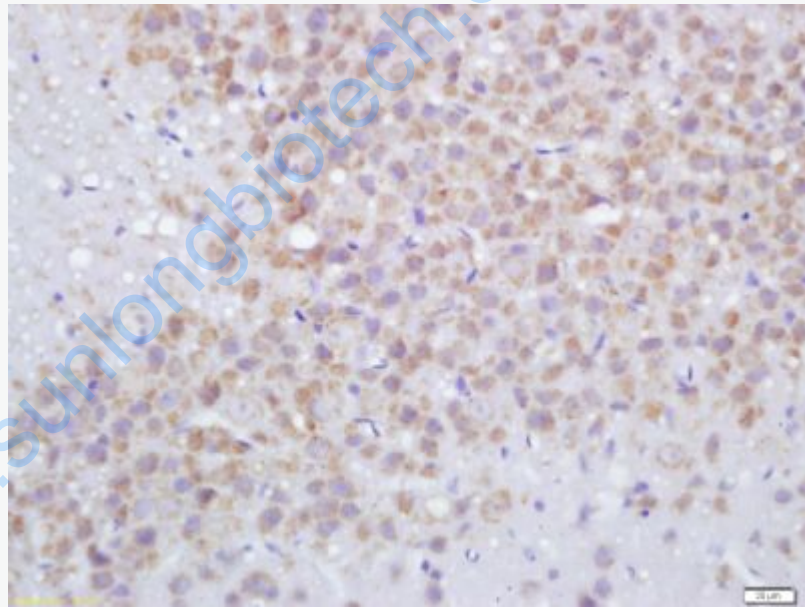
Important Note:

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

Picture:

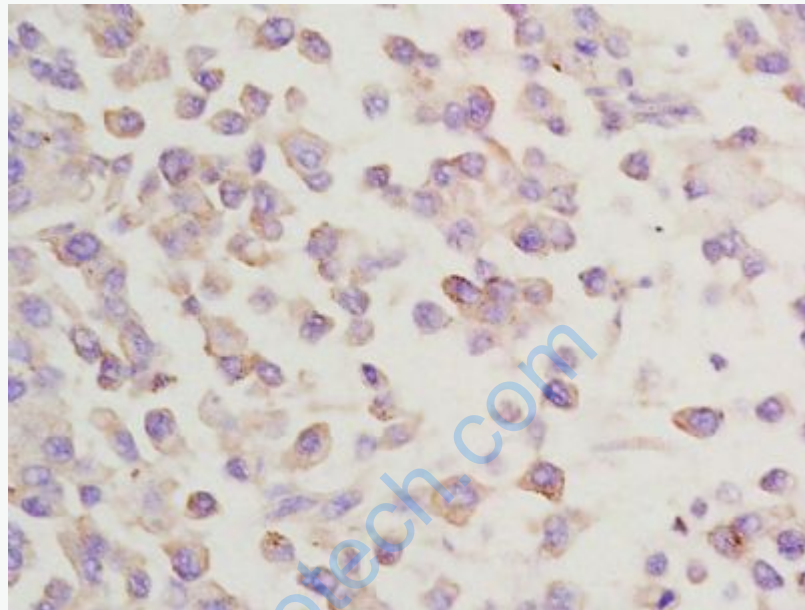


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-GGA2 Polyclonal Antibody, Unconjugated(SL13344R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell:Rat brian; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-GGA2, Unconjugated(SL13344R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010)

staining



Tissue/cell: rat lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-GGA2 Polyclonal Antibody, Unconjugated(SL13344R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
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