

Rabbit anti-Human GGA3 Polyclonal Antibody | anti-GGA3 antibody

Anti-GGA3 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256690	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

GGA3; Polyclonal Antibody; Anti-GGA3 Antibody; Rabbit Polyclonal; GGA3 Antibody; Rabbit PAb; Antigen Affinity Purified; anti-GGA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human GGA3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-GGA3 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human GGA3 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human GGA3 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

GGA3 was immunoprecipitated using: Lane A: 0.5 mg A431 Whole Cell Lysate, 4 uL anti-GGA3 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-GGA3 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 78 kDa. Observed band size: 95 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of GGA3 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human GGA3 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



WB (Western Blot)

Anti-GGA3 rabbit polyclonal antibody at 1:500 dilution Lane A: SH-SY5Y Whole Cell Lysate Lane B: 293 Whole Cell Lysate Lane C: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 78 kDa Observed band size: 95 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-GGA3 antibody

Golgi-localized gamma-ear-containing ARF binding protein 3 (GGA3) is a multidomain clathrin adaptor protein that sorts cargo proteins at the trans-Golgi network (TGN) to the endosome/lysosome pathway. GGA3 interacts directly with the TrkA cytoplasmic tail through an internal DXLL motif and mediates the functional recycling of TrkA to the plasma membrane. GGA3 regulates the trafficking of the Beta-site APP-cleaving enzyme (BACE1), which is required for production of the Alzheimer's disease (AD)-associated amyloid beta peptide. BACE1 is degraded via the lysosomal pathway and that depletion of GGA3 results in increased BACE1 levels and activity owing to impaired lysosomal trafficking and degradation. GGA3 plays a key role in the trafficking of BACE1 to lysosomes, where it is normally degraded. GGA3 depletion results in BACE1 stabilization both in vitro and in vivo.

References

Zhang M, et al. (2016) Gga3 interacts with a G protein-coupled receptor and modulates its cell surface export. Mol Cell Biol 36 (7): 1152-1163. Li X, et al. (2015) Gga3 mediates TrkA endocytic recycling to promote sustained Akt phosphorylation and cell survival. Mol Biol Cell 26 (24): 4412-4426. Kim W, et al. (2018) Bace1 elevation engendered by gga3 deletion increases beta-amyloid pathology in association with APP elevation and decreased Chl1 processing in 5xTAD mice. Mol Neurodegener 13 (1): 6.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gga3-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/256690>