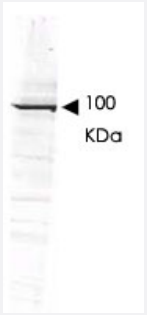
GGA1 polyclonal antibody

Catalog # PAB10213 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using GGA1 polyclonal antibody (Cat # PAB10213) shows detection ofbands at ~100 KDa corresponding to YFP-GGA1 fusion present in a lysate of HEK293 cells over- expressing the recombinant protein (arrowhead).
Approximately 35 ug of lysate was separated on a 4-20% gel by SDS-PAGE and transferred onto nitrocellulose.
After blocking the membrane was probed with the primary antibody diluted to 1:1,350.
Reaction occurred overnight at 4°C followed by washes and reactionwith a 1 : 10,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG [H&L] MXHu for 45 min at room temperature.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GGA1.
Immunogen	A synthetic peptide corresponding to amino acids 336-352 of human GGA1.
Host	Rabbit
Reactivity	Bovine, Human, Mouse, Rat
Specificity	The immunizing sequence is present only in isoform 1 of this protein, therefore cross reactivity with s plice variants is not expected.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

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Recommend Usage	ELISA (1:10000-1:50000) Western Blot (1:500-1:3000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Cell lysate)

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Gene Info — GGA1

Entrez GeneID	26088
Protein Accession#	Q9UJY5;NP_037497
Gene Name	GGA1
Gene Alias	-
Gene Description	golgi associated, gamma adaptin ear containing, ARF binding protein 1
Omim ID	606004
Gene Ontology	Hyperlink

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Gene Summary	This gene encodes a member of the Golgi-localized, gamma adaptin ear-containing, ARF-binding (GGA) protein family. Members of this family are ubiquitous coat proteins that regulate the trafficking of proteins between the trans-Golgi network and the lysosome. These proteins share an amino-terminal VHS domain which mediates sorting of the mannose 6-phosphate receptors at the trans-Golgi network. They also contain a carboxy-terminal region with homology to the ear domain of gamma-adaptins. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	ADP-ribosylation factor binding protein 1|OTTHUMP00000028975|OTTHUMP00000042200|gamma-adaptin related protein 1

Publication Reference

- The trihelical bundle subdomain of the GGA proteins interacts with multiple partners through overlapping but distinct sites.

  Mattera R, Puertollano R, Smith WJ, Bonifacino JS.

  The Journal of Biological Chemistry 2004 Jul; 279(30):31409.

  Application: WB, Bovine, Bovine brains

- GGA1 interacts with the adaptor protein AP-1 through a WNSF sequence in its hinge region.

  Bai H, Doray B, Kornfeld S.

  The Journal of Biological Chemistry 2004 Apr; 279(17):17411.

- The interaction of the human GGA1 GAT domain with rabaptin-5 is mediated by residues on its three-helix bundle.

  Zhai P, He X, Liu J, Wakeham N, Zhu G, Li G, Tang J, Zhang XC.

  Biochemistry 2003 Dec; 42(47):13901.

Pathway

- Lysosome

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