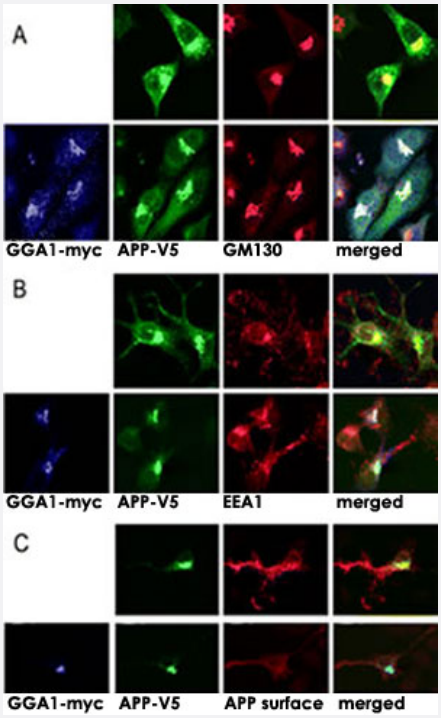
GGA1 polyclonal antibody

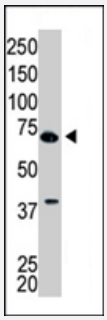
Catalog # PAB4281 Size 400 uL

Applications



Immunofluorescence

A : N2a cells cotransfected with APP770-V5 and GGA1-myc or empty vector were immunostained for APP (Alexa488; green), GGA1 (Cy5; blue), and the Golgi marker GM130 (Cy3; red).
B : The same transfection was stained for the endosomal marker EEA1 (Cy3).
C : To assess cell-surface localization, APP695-GFP and GGA1-myc or empty vector were cotransfected and then immunostained with an Ab to the APP ectodomain on ice without permeabilization (Cy3). Cells were then fixed, permeabilized, and stained for GGA1 (Cy5).
(J. Neurosci. 2006 Sep 27;26(39):9913-9922)



Western Blot (Tissue lysate)

The GGA1 polyclonal antibody (Cat # PAB4281) is used in Western blot to detect GGA1 in mouse kidney tissue lysate .

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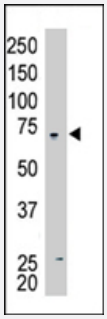

Western Blot (Cell lysate)

The GGA1 polyclonal antibody (Cat # PAB4281) is used in Western blot to detect GGA1 in Jurkat cell lysate .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GGA1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human GGA1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% 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

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- Immunofluorescence

A : N2a cells cotransfected with APP770-V5 and GGA1-myc or empty vector were immunostained for APP (Alexa488; green), GGA1 (Cy5; blue), and the Golgi marker GM130 (Cy3; red).
B : The same transfection was stained for the endosomal marker EEA1 (Cy3).
C : To assess cell-surface localization, APP695-GFP and GGA1-myc or empty vector were cotransfected and then immunostained with an Ab to the APP ectodomain on ice without permeabilization (Cy3). Cells were then fixed, permeabilized, and stained for GGA1 (Cy5).
(J. Neurosci. 2006 Sep 27;26(39):9913-9922)

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

The GGA1 polyclonal antibody (Cat # PAB4281) is used in Western blot to detect GGA1 in mouse kidney tissue lysate .

- Western Blot (Cell lysate)

The GGA1 polyclonal antibody (Cat # PAB4281) is used in Western blot to detect GGA1 in Jurkat cell lysate .

Gene Info — GGA1

Entrez GeneID	26088
Protein Accession#	Q9UJY5
Gene Name	GGA1
Gene Alias	-
Gene Description	golgi associated, gamma adaptin ear containing, ARF binding protein 1
Omim ID	606004
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the Golgi-localized, gamma adaptin ear-containing, ARF-bindin g (GGA) protein family. Members of this family are ubiquitous coat proteins that regulate the traffic king of proteins between the trans-Golgi network and the lysosome. These proteins share an amin o-terminal VHS domain which mediates sorting of the mannose 6-phosphate receptors at the tran s-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 hav e been found for this gene. [provided by RefSeq
Other Designations	ADP-ribosylation factor binding protein 1|OTTHUMP00000028975|OTTHUMP00000042200|ga mma-adaptin related protein 1

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Publication Reference

- GGA1 acts as a spatial switch altering amyloid precursor protein trafficking and processing.

  von Arnim CA, Spoelgen R, Peltan ID, Deng M, Courchesne S, Koker M, Matsui T, Kowa H, Lichtenthaler SF, Irizarry MC, Hyman BT.

  The Journal of Neuroscience 2006 Sep; 26(39):9913.

Pathway

- Lysosome

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