

**Gamma-adducin Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50966****Specification**

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**Gamma-adducin Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">Q9UEY8</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 79 KDa                 |
| Antigen Region    | 391 - 450              |

**Gamma-adducin Antibody - Additional Information****Gene ID** 120**Other Names**

Gamma-adducin, Adducin-like protein 70, ADD3, ADDL

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Gamma-adducin. The exact sequence is proprietary.

**Dilution**

WB~~ 1:1000

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Gamma-adducin Antibody - Protein Information****Name** ADD3**Synonyms** ADDL**Function**

Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Plays a role in actin filament capping (PubMed:<a href="http://www.uniprot.org/citations/23836506" target="\_blank">23836506</a>). Binds to calmodulin (Probable). Involved in myogenic reactivity of the renal afferent arteriole (Af-art), renal interlobular arteries and middle cerebral artery (MCA) to increased perfusion pressure. Involved in regulation of potassium channels in the vascular smooth muscle cells (VSMCs) of the Af-art and MCA ex vivo. Involved in regulation of glomerular capillary pressure, glomerular filtration rate

(GFR) and glomerular nephrin expression in response to hypertension. Involved in renal blood flow (RBF) autoregulation. Plays a role in podocyte structure and function. Regulates globular monomer actin (G-actin) and filamentous polymer actin (F-actin) ratios in the primary podocytes affecting actin cytoskeleton organization. Regulates expression of synaptopodin, RhoA, Rac1 and CDC42 in the renal cortex and the primary podocytes. Regulates expression of nephrin in the glomeruli and in the primary podocytes, expression of nephrin and podocin in the renal cortex, and expression of focal adhesion proteins integrin alpha-3 and integrin beta-1 in the glomeruli. Involved in cell migration and cell adhesion of podocytes, and in podocyte foot process effacement. Regulates expression of profibrotic markers MMP2, MMP9, TGF beta-1, tubular tight junction protein E-cadherin, and mesenchymal markers vimentin and alpha-SMA (By similarity). Promotes the growth of neurites (By similarity).

#### Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q62847}. Cell membrane {ECO:0000250|UniProtKB:Q62847}; Peripheral membrane protein; Cytoplasmic side. Cytoplasm {ECO:0000250|UniProtKB:Q9QYB5}. Note=Full-length protein and the cleavage fragment 358-706 localize mainly to the cytoplasm, while cleavage fragment 1-357 translocates from the cytoplasm to the nucleus. {ECO:0000250|UniProtKB:Q9QYB5}

#### Tissue Location

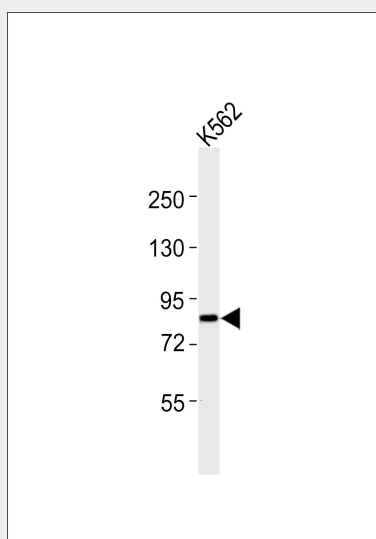
[Isoform 1]: ubiquitously expressed.

### Gamma-adducin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Gamma-adducin Antibody - Images



Anti-Gamma-adducin Antibody at 1:1000 dilution + K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution  
Predicted band size : 79 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **Gamma-adducin Antibody - Background**

Membrane-cytoskeleton-associated protein that promotes the assembly of the spectrin-actin network. Binds to calmodulin.

#### **Gamma-adducin Antibody - References**

Katagiri T., et al. Cytogenet. Cell Genet. 74:90-95(1996).  
Moorthy S., et al. Submitted (SEP-1995) to the EMBL/GenBank/DDBJ databases.  
Citterio L., et al. Biochem. Biophys. Res. Commun. 266:110-114(1999).  
Bechtel S., et al. BMC Genomics 8:399-399(2007).  
Deloukas P., et al. Nature 429:375-381(2004).