10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# GRAMD1B Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56211

## Product Information

| | |
|---|---|
| **Application** | IHC-P, IHC-F, IF, ICC, E |
| **Primary Accession** | Q3KR37 |
| **Reactivity** | Rat, Pig, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 85400 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 57476 |
| **Other Names** | Protein Aster-B, GRAM domain-containing protein 1B, GRAMD1B, KIAA1201 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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. |

## Protein Information

| | |
|---|---|
| **Name** | GRAMD1B ( HGNC:29214) |
| **Synonyms** | KIAA1201 |
| **Function** | Cholesterol transporter that mediates non-vesicular transport of cholesterol from the plasma membrane (PM) to the endoplasmic reticulum (ER) (By similarity). Contains unique domains for binding cholesterol and the PM, thereby serving as a molecular bridge for the transfer of cholesterol from the PM to the ER (By similarity). Plays a crucial role in cholesterol homeostasis in the adrenal gland and has the unique ability to localize to the PM based on the level of membrane cholesterol (By similarity). In lipid-poor conditions localizes to the ER membrane and in response to excess cholesterol in the PM is recruited to the endoplasmic reticulum-plasma membrane contact sites (EPCS) which is mediated by the GRAM domain (By similarity). At the EPCS, the sterol-binding VASt/ASTER domain binds to the cholesterol in the PM and facilitates its transport from the PM to ER (By similarity). Also mediates cholesterol transfer from lysosomes to endoplasmic reticulum through interaction with NPC1 (PubMed:31537798). |
| **Cellular Location** | Endoplasmic reticulum membrane; Single-pass membrane protein. Cell |

membrane; Single-pass membrane protein. Note=In lipid-poor conditions localizes to the ER membrane and in response to excess cholesterol in the PM is recruited to the endoplasmic reticulum-plasma membrane contact sites (EPCS)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.