

## **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

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 transfer from the PM to ER (By similarity).

**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).  $\label{eq:endoplasmic} % \begin{subarray}{ll} \end{subarray} %$ 

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