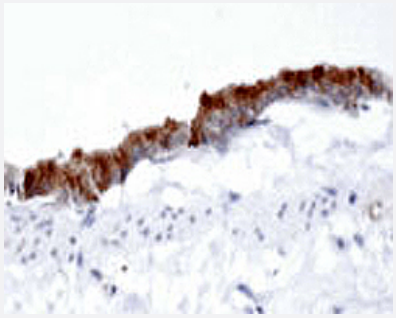
# AP1G1 polyclonal antibody

Catalog # PAB14334 Size 100 uL

## Applications



### Immunohistochemistry

Immunohistochemistry using DAB substrate showing intense staining in the rat airway epithelium using AP1G1 polyclonal antibody (Cat # PAB14334) at a dilution of 1 : 500. Secondary antibody was biotinylated goat and rabbit at a dilution of 1 : 3000 followed by Vector ABC. This antigen has a similar distribution to clathrin, with which it associates.

## Specification

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| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of AP1G1. |
| **Immunogen** | A synthetic peptide (conjugated with diphtheria toxoid) corresponding to amino acids 5-24 of human AP1G1. |
| **Sequence** | IRLRELIRTIRTARTQAEER |
| **Host** | Rabbit |
| **Reactivity** | Human, Rat |
| **Specificity** | This antibody has been shown to be specific to AP-1. |
| **Form** | Lyophilized |
| **Recommend Usage** | Immunofluorescence (1:200-1:2000)<br>Western Blot (1:1000-1:4000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from PBS |

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| **Storage Instruction** | Store at 4°C on dry atmosphere.<br>After reconstitution with deionized water, store at -20°C or lower.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot
- Immunohistochemistry

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- Immunofluorescence

## Gene Info — AP1G1

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|---|---|
| **Entrez GeneID** | 164 |
| **Protein Accession#** | O43747 |
| **Gene Name** | AP1G1 |
| **Gene Alias** | ADTG, CLAPG1, MGC18255 |
| **Gene Description** | adaptor-related protein complex 1, gamma 1 subunit |
| **Omim ID** | 603533 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Adaptins are important components of clathrin-coated vesicles transporting ligand-receptor comp lexes from the plasma membrane or from the trans-Golgi network to lysosomes. The adaptin famil y of proteins is composed of four classes of molecules named alpha, beta-, beta prime- and gam ma- adaptins. Adaptins, together with medium and small subunits, form a heterotetrameric compl ex called an adaptor, whose role is to promote the formation of clathrin-coated pits and vesicles. The protein encoded by this gene is a gamma-adaptin protein and it belongs to the adaptor comp lexes large subunits family. Two transcript variants encoding different isoforms have been found fo r this gene. [provided by RefSeq |
| **Other Designations** | clathrin assembly protein complex 1 gamma large chain\|clathrin-associated/assembly/adaptor pr otein, large, gamma 1\|gamma adaptin\|golgi adaptor HA1/AP1 adaptin gamma subunit |

## Publication Reference

- Identification and characterization of novel clathrin adaptor-related proteins.

  Takatsu H, Sakurai M, Shin HW, Murakami K, Nakayama K.

  The Journal of Biological Chemistry 1998 Sep; 273(38):24693.

  Application: IF, WB-Tr, Human, Rat, HEK 293, HL-60, Rat hepatocyte Clone 9 cells cells

- Cloning, expression pattern, and chromosomal assignment to 16q23 of the human gamma-adaptin gene (ADTG).

  Peyrard M, Parveneh S, Lagercrantz S, Ekman M, Fransson I, Sahlen S, Dumanski JP.

  Genomics 1998 Jun; 50(2):275.

## Pathway

- Lysosome

## Disease

- Tobacco Use Disorder