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# CMYA2/PDE4DIP Rabbit pAb

CMYA2/PDE4DIP Rabbit pAb
Catalog # AP59263

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q5VU43 |
| **Predicted** | Rat, Pig, Dog, Human, Mouse, Chicken, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 265103 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human CMYA2/PDE4DIP |
| **Epitope Specificity** | 1501-1600/2365 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Golgi apparatus (By similarity). Cytoplasm,cytoskeleton, centrosome (By similarity). Cytoplasm. Nucleus. |
| **DISEASE** | Note=A chromosomal aberration involving PDE4DIP may bethe cause of a myeloproliferative disorder (MBD) associated witheosinophilia. Translocation t(1;5)(q23;q33) that forms aPDE4DIP-PDGFRB fusion protein. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | May function as an anchor sequestering components of the cAMP-dependent pathway to Golgi and/or centrosomes. Myomegalin, is a 2,346 amino acid protein that contains one NBPF domain and localizes to the nucleus, cytoplasm, centrosome and Golgi apparatus. Expressed at high levels in fetal and adult heart and at lower levels in brain and placenta, myomegalin is thought to function as an anchoring protein that sequesters members of the cAMP-dependent pathway to the Golgi and to centrosomes, thereby mediating cAMP pathway dynamics. Translocations in the gene that encodes myomegalin are associated with myeloproliferative disorders (MBDs), a group of diseases caused by an overproduction of blood cells. Myomegalin exists as twelve isoforms due to alternative splicing events. |

## Additional Information

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| **Gene ID** | 9659 |
| **Other Names** | Myomegalin, Cardiomyopathy-associated protein 2, Phosphodiesterase 4D-interacting protein, PDE4DIP, CMYA2, KIAA0454, KIAA0477, MMGL |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |

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| **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

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| **Name** | PDE4DIP |
| **Synonyms** | CMYA2, KIAA0454, KIAA0477, MMGL |
| **Function** | Functions as an anchor sequestering components of the cAMP- dependent pathway to Golgi and/or centrosomes (By similarity). |
| **Cellular Location** | Golgi apparatus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250\|UniProtKB:Q9WUJ3} |
| **Tissue Location** | Highly expressed in adult and fetal heart, in skeletal muscle and, to a lower extent, in brain and placenta |

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