

# PAG1 Recombinant Rabbit mAb

Catalog # AP100041

## Product Information

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| <b>Application</b>                      | WB, IHC-P, IHC-F, IF, IP                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Primary Accession</b>                | <a href="#">Q9NWQ8</a>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Other Accession</b>                  | <a href="#">Q9NWQ8</a>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Host</b>                             | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clonality</b>                        | Recombinant                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Calculated MW</b>                    | 46981                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Physical State</b>                   | Liquid                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>                        | A synthesized peptide derived from human PAG1                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Epitope Specificity</b>              | 400-432                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Buffer</b>                           | 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.                                                                                                                                                                                                                                                                                                     |
| <b>Post-translational modifications</b> | Palmitoylated. Phosphorylated by FYN on Tyr-317 in resting T-cells; which promotes interaction with CSK. Dephosphorylated by PTPRC/CD45 upon TCR activation; which leads to CSK dissociation. May also be dephosphorylated by PTPN11. Hyperphosphorylated in mast cells upon FCER1 activation.                                                                                                                       |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                            |
| <b>Background Descriptions</b>          | Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Promotes CSK activation and recruitment to lipid rafts, which results in LCK inhibition. Inhibits immunological synapse formation by preventing dynamic arrangement of lipid raft proteins. May be involved in cell adhesion signaling. |

## Additional Information

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| <b>Gene ID</b>     | 55824                                                                                                                                                                                                                                                                                                                       |
| <b>Other Names</b> | CBP; PAG; F730007C19Rik; PHAG1_HUMAN; PAG1; Csk-binding protein; Transmembrane adapter protein PAG; Transmembrane phosphoprotein Cbp; PHAG1_MOUSE; phosphoprotein membrane anchor with glycosphingolipid microdomains 1; phosphoprotein associated with glycosphingolipid microdomains 1; transmembrane adaptor protein PAG |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IP=1:20-50,Flow-Cyt=1:50-100,IF=1:100-500,ICC/IF=1:50-200                                                                                                                                                                                                                     |
| <b>Storage</b>     | 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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| <b>Name</b>              | PAG1                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | CBP, PAG                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Function</b>          | Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Promotes CSK activation and recruitment to lipid rafts, which results in LCK inhibition. Inhibits immunological synapse formation by preventing dynamic arrangement of lipid raft proteins. May be involved in cell adhesion signaling. |
| <b>Cellular Location</b> | Cell membrane; Single-pass type III membrane protein Note=Present in lipid rafts                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Ubiquitously expressed. Present in germinal center B-cells, plasma cells, T-cells, monocytes and platelets (at protein level).                                                                                                                                                                                                                                                                                       |

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