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PAG1 Recombinant Rabbit mAb

Catalog # AP100041

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	Q9NWQ8
Other Accession	Q9NWQ8
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	46981
Physical State	Liquid
Immunogen	A synthesized peptide derived from human PAG1
Epitope Specificity	400-432
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
Post-translational modifications	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Gene ID	55824
Other Names	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
Dilution	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
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	PAG1
Synonyms	CBP, PAG
Function	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.
Cellular Location	Cell membrane; Single-pass type III membrane protein Note=Present in lipid rafts
Tissue Location	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'.