PAGP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAGP, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) PAGP Polyclonal Antibody
Product Gene Name	anti-PAGP antibody
Product Synonym Names	PAGP Antibody; Lipid A palmitoyltransferase PagP; EC 2.3.1.251; Lipid A acylation protein; pagP crcA ybeG b0622 JW0617
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli (strain K12)
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH7.4
Purity/Purification	Antigen-affinity
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	21,770 Da
3D Structure	ModBase 3D Structure for P37001
Immunogen	Recombinant Escherichia coli (strain K12) pagP protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PAGP antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-PAGP antibody	MBS7156512 is an antibody targeting PAGP. Also known as Rabbit anti-Escherichia coli (strain K12) PAGP Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-PAGP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAGP. It may not necessarily be applicable to this product.

NCBI GI #	16128605
NCBI GeneID	946360
NCBI Accession #	NP_415155.1
UniProt Primary Accession #	P37001
UniProt Secondary Accession #	P77617; Q9R7T4

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	phospholipid:lipid A palmitoyltransferase
NCBI Official Symbol	pagP
NCBI Official Synonym Symbols	crcA; ECK0615; JW0617; ybeG
UniProt Protein Name	Lipid A palmitoyltransferase PagP
UniProt Synonym Protein Names	Lipid A acylation protein
Protein Family	Lipid A palmitoyltransferase
UniProt Gene Name	pagP
NCBI Protein Information	phospholipid:lipid A palmitoyltransferase
NCBI Summary for PAGP	Mg(2+) stimulon-PhoPQ regulon, EvgAS-PhoPQ cascade enhanced-expression subset. [More information is available at EcoGene: EG12180]. A PagP homodimer catalyzes palmitate transfer from a phospholipid (sn-1 position) to lipid A or to a lipid A precursor (N-linked hydroxymyristate on the proximal unit) . [More information is available at EcoCyc: EG12180].
UniProt Comments for PAGP	Transfers a palmitate residue from the sn-1 position of a phospholipid to the N-linked hydroxymyristate on the proximal unit of lipid A or its precursors. Phosphatidylglycerol (PtdGro), phosphatidylethanolamine (PtdEtn), phosphatidylserine (PtdSer) and phosphatidic acid (Ptd-OH) are all effective acyl donors.
Research Articles on PAGP	**1.** Data suggest that, as PagP folds and interacts with lipid bilayer/micelle, thermodynamic contribution of interface amino acid residues correlates with change in non-polar accessible surface area; C-terminal beta-sheet motif is a recognition signal and it exerts considerable influence on folding cooperativity and stability of the folded beta-barrel.
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