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LpxT Antibody

Catalog # ASC12237

Product Information

Application	WB, E
Primary Accession	P76445
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	lpxT
Calculated MW	26759
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	WB: 0.5 µg/mL. Antibody validated: Western Blot in E.coli samples. All other applications and species not yet tested.

Additional Information

Gene ID	75172303;946693
Alias Symbol	lpxT
Other Names	Lipid A 1-diphosphate synthase, Kdo(2)-lipid A phosphotransferase, Undecaprenyl pyrophosphate:lipid A 1-phosphate phosphotransferase, Eck2168, yeiU
Reconstitution & Storage	LpxT Antibody can be stored at 4 ˚ C for three months and -20 ˚ C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	LpxT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	lpxT {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000303|PubMed:18047581}
Function	Involved in the modification of the lipid A domain of lipopolysaccharides (LPS). Transfers a phosphate group from undecaprenyl pyrophosphate (C55-PP) to lipid A to form lipid A 1- diphosphate. Contributes to the recycling of undecaprenyl phosphate (C55-P) (PubMed:18047581). In vitro, has low undecaprenyl-diphosphate phosphatase activity (PubMed:17660416).
Cellular Location	Cell inner membrane {ECO:0000255|HAMAP- Rule:MF_01945, ECO:0000269|PubMed:15919996, ECO:0000269|PubMed:17660416};

Multi-pass membrane protein {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000269|PubMed:17660416} Note=Transferase activity takes place on the periplasmic side of the inner membrane. {ECO:0000255|HAMAP-Rule:MF_01945, ECO:0000269|PubMed:18047581}

Background

LpxT is involved in the modification of the lipid A domain of lipopolysaccharides (LPS) and transfers a phosphate group from undecaprenyl pyrophosphate (C55-PP) to lipid A to form lipid A 1-diphosphate as well as contributes to the recycling of undecaprenyl phosphate (C55-P). In vitro, it has low undecaprenyl-diphosphate phosphatase activity.

References

Touze, et al. Mol Microbiol. 2008; 67(2): 267-77.Tatar, et al. Microbiology 2007; 153(Pt8): 2518-2529.

Images

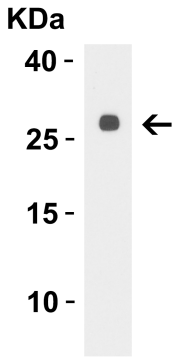


Figure 1 WB Validation of LpxT in E. coli
Loading: 15 µg of lysate Antibodies: LpxT ASC12237, 0.5 µg/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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