

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.
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Precautions	LpxT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
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Protein Information

Name	lpxT {ECO:0000255 HAMAP-Rule:MF_01945, ECO:0000303 PubMed:18047581}
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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).
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Cellular Location	Cell inner membrane {ECO:0000255 HAMAP- Rule:MF_01945, ECO:0000269 PubMed:15919996, ECO:0000269 PubMed:17660416};
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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

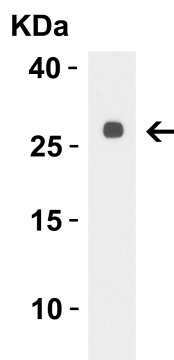


Figure 1 WB Validation of LpxT in E. coli
Loading: 15 µg of lysate Antibodies: LpxT ASC12237, 0.5 µg/mL , 1 h incubation at RT in 5% NFDm/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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