DPS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DPS, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli O6:K15:H31 (strain 536/UPEC) DPS Polyclonal Antibody
Product Gene Name	anti-DPS antibody
Product Synonym Names	DPS Antibody; DNA protection during starvation protein; EC 1.16.-.-; dps ECP_0826
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	E Coli O6:K15:H31 (strain 536/UPEC)
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	18,695 Da
3D Structure	ModBase 3D Structure for Q0TJN6
Immunogen	Recombinant Escherichia coli O6:K15:H31 (strain 536 / UPEC) dps protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DPS antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-DPS antibody	MBS7188849 is an antibody targeting DPS. Also known as Rabbit anti-Escherichia coli O6:K15:H31 (strain 536/UPEC) DPS Polyclonal Antibody. Reactive in E Coli O6:K15:H31 (strain 536/UPEC). Host: Rabbit.
Other Notes	Small volumes of anti-DPS 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 DPS. It may not necessarily be applicable to this product.

NCBI GI #	446022945
NCBI Accession #	WP_000100800.1
UniProt Primary Accession #	Q0TJN6
GenBank Nucleotide #	WP_000100800.1
NCBI Official Full Name	MULTISPECIES: DNA starvation/stationary phase protection protein

UniProt Protein Name	DNA protection during starvation protein
Protein Family	Dehydrodolichyl diphosphate synthase
UniProt Gene Name	dps
UniProt Comments for DPS	During stationary phase, binds the chromosome non-specifically, forming a highly ordered and stable dps-DNA co-crystal within which chromosomal DNA is condensed and protected from diverse damages. It protects DNA from oxidative damage by sequestering intracellular Fe2+ ion and storing it in the form of Fe3+ oxyhydroxide mineral, which can be released after reduction. One hydrogen peroxide oxidizes two Fe2+ ions, which prevents hydroxyl radical production by the Fenton reaction. Dps also protects the cell from UV and gamma irradiation, iron and copper toxicity, thermal stress and acid and base shocks. Also shows a weak catalase activity.
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