PTSO Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTSO, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) PTSO Polyclonal Antibody
Product Gene Name	anti-PTSO antibody
Product Synonym Names	PTSO Antibody; Phosphocarrier protein NPr; EC 2.7.11.-; Nitrogen-related HPr; ptsO npr rpoR yhbK b3206 JW3173
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	9,810 Da
3D Structure	ModBase 3D Structure for P0A9N0
Immunogen	Recombinant Escherichia coli (strain K12) ptsO protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PTSO antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-PTSO antibody	MBS7165449 is an antibody targeting PTSO. Also known as Rabbit anti-Escherichia coli (strain K12) PTSO Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-PTSO 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 PTSO. It may not necessarily be applicable to this product.

NCBI GI #	16131096
NCBI GeneID	947914
NCBI Accession #	NP_417673.1
UniProt Primary Accession #	P0A9N0
UniProt Secondary Accession #	P33996; Q2M906

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	phosphohistidinoprotein-hexose phosphotransferase component of N-regulated PTS system (Npr)
NCBI Official Symbol	npr
NCBI Official Synonym Symbols	ECK3195; JW3173; ptsO; rpoR; yhbK
UniProt Protein Name	Phosphocarrier protein NPr
UniProt Synonym Protein Names	Nitrogen-related HPr
Protein Family	Phosphocarrier protein
UniProt Gene Name	ptsO
UniProt Synonym Gene Names	npr; rpoR; yhbK
NCBI Protein Information	phosphohistidinoprotein-hexose phosphotransferase component of N-regulated PTS system (Npr)
NCBI Summary for PTSO	The rpoN operon contains rpoN-hpf-ptsN-yhbJ-npr. [More information is available at EcoGene: EG12147]. NPr, the product of ptsO, is homologous to the HPr protein of the phosphoenolpyruvate (PEP)-dependent carbohydrate phosphotransferase system (PTS) . [More information is available at EcoCyc: EG12147].
UniProt Comments for PTSO	Component of the phosphoenolpyruvate-dependent nitrogen-metabolic phosphotransferase system (nitrogen-metabolic PTS), that seems to be involved in regulating nitrogen metabolism. The phosphoryl group from phosphoenolpyruvate (PEP) is transferred to the phosphoryl carrier protein NPr by enzyme I-Ntr. Phospho-NPr then transfers it to EIIA-Ntr. Could function in the transcriptional regulation of sigma-54 dependent operons in conjunction with the NPr (PtsO) and EIIA-Ntr (PtsN) proteins.
Research Articles on PTSO	**1.** Study elucidated the structure of the NPr:EIN Ntr complex using a hybrid approach. The structure has a similar fold to the homologous HPr:EIN sugar complex, but differs in surface potential, which explains the difference in specificity between the two evolutionarily related enzyme pairs.
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