MALT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MALT, Polyclonal Antibody
Full Product Name	Rabbit anti-Escherichia coli (strain K12) MALT Polyclonal Antibody
Product Gene Name	anti-MALT antibody
Product Synonym Names	MALT Antibody; HTH-type transcriptional regulator MalT; ATP-dependent transcriptional activator MalT; malT malA b3418 JW3381
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	103,118 Da
3D Structure	ModBase 3D Structure for P06993
Immunogen	Recombinant Escherichia coli (strain K12) malT protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MALT antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-MALT antibody	MBS7164633 is an antibody targeting MALT. Also known as Rabbit anti-Escherichia coli (strain K12) MALT Polyclonal Antibody. Reactive in E Coli (strain K12). Host: Rabbit.
Other Notes	Small volumes of anti-MALT 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 MALT. It may not necessarily be applicable to this product.

NCBI GI #	16131294
NCBI GeneID	947921
NCBI Accession #	NP_417877.1
UniProt Primary Accession #	P06993
UniProt Secondary Accession #	Q2M783

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	mal regulon transcriptional activator
NCBI Official Symbol	malT
NCBI Official Synonym Symbols	ECK3405; JW3381; malA
UniProt Protein Name	HTH-type transcriptional regulator MalT
UniProt Synonym Protein Names	ATP-dependent transcriptional activator MalT
Protein Family	HTH-type transcriptional regulator
UniProt Gene Name	malT
UniProt Synonym Gene Names	malA
NCBI Protein Information	mal regulon transcriptional activator
NCBI Summary for MALT	Activated by maltotriose and ATP to form active oligomers. [More information is available at EcoGene: EG10562]. The malT gene is located upstream of and in the opposite direction of the operon malPQ . [More information is available at EcoCyc: EG10562].
UniProt Comments for MALT	Positively regulates the transcription of the maltose regulon whose gene products are responsible for uptake and catabolism of malto-oligosaccharides. Binds and recognizes a DNA motif (called the malT box): 5'-GGA[TG]GA-3'.MiscellaneousA study on malT mutants (PubMed:12003949) has shown that some of them became nearly completely resistant to Aes repression while still being sensitive to MalY. These mutations are located at positions 38, 220, 243, and 359, most likely defining the interaction patch with aes on the three-dimensional structure of MalT.
Research Articles on MALT	**1.** pinpointed the NOD-arm interface of the MalT STAND transcription factor, and generated a MalT variant in which this interface can be covalently locked on demand, thereby trapping the NOD in the closed state
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