ALGL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALGL, Polyclonal Antibody
Full Product Name	Rabbit anti-Pseudomonas aeruginosa (strain 15692/DSM 22644/CIP 104116/JCM 14847/LMG 12228/1C/PRS 101/PAO1) ALGL Polyclonal Antibody
Product Gene Name	anti-ALGL antibody
Product Synonym Names	ALGL Antibody; Alginate lyase; EC 4.2.2.3; Poly(beta-D-mannuronate; lyase; algL PA3547
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Pseudomonas aeruginosa (strain 15692/DSM 22644/CIP 104116/JCM 14847/LMG 12228/1C/PRS 101/PAO1)
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	40,829 Da
3D Structure	ModBase 3D Structure for Q06749
Immunogen	Recombinant Pseudomonas aeruginosa (strain 15692 / DSM 22644 / CIP 104116 / JCM 14847 / LMG 12228 / 1C / PRS 101 / PAO1) algL protein
Conjugation	Non-conjugate
Modification	Unmodified
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ALGL antibody	ELISA (EIA), WB (Western Blot) (ensure identification of antigen)
Related Product Information for anti-ALGL antibody	MBS7150580 is an antibody targeting ALGL. Also known as Rabbit anti-Pseudomonas aeruginosa (strain 15692/DSM 22644/CIP 104116/JCM 14847/LMG 12228/1C/PRS 101/PAO1) ALGL Polyclonal Antibody. Reactive in Pseudomonas aeruginosa (strain 15692/DSM 22644/CIP 104116/JCM 14847/LMG 12228/1C/PRS 101/PAO1). Host: Rabbit.
Other Notes	Small volumes of anti-ALGL 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 ALGL. It may not necessarily be applicable to this product.

NCBI GI #	15598743
NCBI GeneID	878552
NCBI Accession #	NP_252237.1

UniProt Primary Accession #	Q06749
UniProt Secondary Accession #	Q57292
UniProt Related Accession #	Q06749
GenBank Nucleotide #	NC_002516.2
NCBI Official Full Name	alginate lyase
NCBI Official Symbol	algL
UniProt Protein Name	Alginate lyase
UniProt Synonym Protein Names	Poly(beta-D-mannuronate) lyase
UniProt Gene Name	algL
NCBI Protein Information	alginate lyase
UniProt Comments for ALGL	Catalyzes the depolymerization of alginate by cleaving the beta-1,4 glycosidic bond between two adjacent sugar residues via a beta-elimination mechanism (PubMed:8370530, PubMed:8335634, PubMed:23215237). May serve to degrade mislocalized alginate that is trapped in the periplasmic space. Acts preferentially on non-acetylated alginate or its precursor mannuronan. Is able to catalyze cleavage adjacent to either mannuronate or guluronate residues in alginate. Exhaustive digestion of alginate by AlgL generates dimeric and trimeric products (PubMed:23215237). In addition to its enzymatic function, AlgL appears to be required for alginate export, maybe as part of a multi-protein alginate-secretion complex (PubMed:16177314).
Research Articles on ALGL	**1.** AlgL crystals exhibited the symmetry of space group P2(1)2(1)2(1) and diffracted to a minimum d-spacing of 1.64 A
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