lasA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	lasA, Polyclonal Antibody
Full Product Name	lasA Antibody; HRP conjugated
Product Gene Name	anti-lasA antibody
Product Synonym Names	Protease LasA; Staphylolytic protease; lasA; PA1871
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Pseudomonas aeruginosa
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: lasA (MBS7000024) HRP Conjugated Antibody: lasA (MBS7006178)
Molecular Weight	45,517 Da
3D Structure	ModBase 3D Structure for P14789
Immunogen	Recombinant Pseudomonas aeruginosa Protease LasA protein
Conjugation	HRP
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-lasA antibody	ELISA (EIA)
Related Product Information for anti-lasA antibody	Involved in proteolysis and elastolysis (degradation of the host protein elastin). Has staphylolytic activity (degrades pentaglycine cross-links in cell wall peptidogylcan), preferring Gly-Gly-|-X substrates where X is Ala or Gly (PubMed:11179971). Enhances the elastolytic but not proteolytic activity of elastase (lasB) and elastolytic activity of other proteases (PubMed:2110137). Degradation of host elastin is likely to contribute to the pathogenicity of P.aeruginosa. While either His-317 or His-356 can abstract a proton in the hydrolysis reaction, the same residue performs both functions in a given catalytic cycle, with the other stabilizing the catalytic intermediate (PubMed:20026068).
Other Notes	Small volumes of anti-lasA 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.
Searchable Terms for lasA purchase	MBS7006178 is an antibody targeting lasA. Also known as lasA Antibody; HRP conjugated. Reactive in Pseudomonas aeruginosa. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for lasA. It may not necessarily be applicable to this product.

NCBI GI #	15597068

NCBI GeneID	878260
NCBI Accession #	NP_250562.1
UniProt Primary Accession #	P14789
UniProt Secondary Accession #	P72165; Q9I2M5
UniProt Related Accession #	P14789
GenBank Nucleotide #	NC_002516.2
NCBI Official Full Name	protease LasA
NCBI Official Symbol	lasA
UniProt Protein Name	Protease LasA
UniProt Synonym Protein Names	Staphylolytic protease
Protein Family	Bacteriocin lactocin
UniProt Gene Name	lasA
UniProt Entry Name	LASA_PSEAE
NCBI Protein Information	protease LasA
Research Articles on lasA	**1.** crystal structures of active LasA as a complex with tartrate and in the uncomplexed form. While the overall fold resembles that of the other M23 family members, the LasA active site is less constricted and utilizes a different set of metal ligands.
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