Lysozyme (LYZ) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Lysozyme (LYZ), Polyclonal Antibody
Full Product Name	Lysozyme Rabbit pAb
Product Gene Name	anti-LYZ antibody
Product Synonym Names	LZM; LYSC; EC 3.2.1.17; 4-beta-N-acetylmuramidase C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	17kDa
OMIM	phenotype 153450
3D Structure	ModBase 3D Structure for P61626
Immunogen	A synthesized peptide derived from human Lysozyme
Cellular Localization	Amyloid, Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-LYZ antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoprecipitation (IP)
Application Notes for anti-LYZ antibody	WB: 1:5000-1:10000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200 IP: 1:20
Related Product Information for anti-LYZ antibody	Lysozymes have primarily a bacteriolytic function; those in tissues and body fluids are associated with the monocyte-macrophage system and enhance the activity of immunoagents.
Other Notes	Small volumes of anti-LYZ 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 LYZ purchase	MBS8542568 is an antibody targeting LYZ. Also known as Lysozyme Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	48428995
NCBI GeneID	4069

NCBI Accession #	P61626.1
UniProt Primary Accession #	P61626
UniProt Related Accession #	P61626
NCBI Official Full Name	Lysozyme C
NCBI Official Synonym Full Names	lysozyme
NCBI Official Symbol	LYZ
NCBI Official Synonym Symbols	LZM; LYZF1
UniProt Protein Name	Lysozyme C
UniProt Synonym Protein Names	1,4-beta-N-acetylmuramidase C
Protein Family	Lysozyme
UniProt Gene Name	LYZ
UniProt Synonym Gene Names	LZM
UniProt Entry Name	LYSC_HUMAN
NCBI Protein Information	lysozyme C
NCBI Summary for LYZ	This gene encodes human lysozyme, whose natural substrate is the bacterial cell wall peptidoglycan (cleaving the beta[1-4]glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine). Lysozyme is one of the antimicrobial agents found in human milk, and is also present in spleen, lung, kidney, white blood cells, plasma, saliva, and tears. The protein has antibacterial activity against a number of bacterial species. Missense mutations in this gene have been identified in heritable renal amyloidosis. [provided by RefSeq, Oct 2014]
UniProt Comments for LYZ	LYZ: Lysozymes have primarily a bacteriolytic function; those in tissues and body fluids are associated with the monocyte- macrophage system and enhance the activity of immunoagents. Defects in LYZ are a cause of amyloidosis type 8 (AMYL8); also known as systemic non-neuropathic amyloidosis or Ostertag-type amyloidosis. AMYL8 is a hereditary generalized amyloidosis due to deposition of apolipoprotein A1, fibrinogen and lysozyme amyloids. Viscera are particularly affected. There is no involvement of the nervous system. Clinical features include renal amyloidosis resulting in nephrotic syndrome, arterial hypertension, hepatosplenomegaly, cholestasis, petechial skin rash. Belongs to the glycosyl hydrolase 22 family. Protein type: EC 3.2.1.17; Endoplasmic reticulum; Secreted, signal peptide; Vesicle; Secreted; Hydrolase Chromosomal Location of Human Ortholog: 12q15 Cellular Component: extracellular space; extracellular region Molecular Function: identical protein binding; lysozyme activity Biological Process: retinal homeostasis; metabolic process; cytolysis; defense response to bacterium; inflammatory response Disease: Amyloidosis, Familial Visceral
Research Articles on LYZ	**1.** The findings suggest that the F57I mutation affects the aggregation process of lysozyme resulting in the formation of cytotoxic species and that SAP is able to prevent cell death in the F57I flies by preventing accumulation of toxic F57I structures.
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