

Product datasheet for **AM26276PU-N**

LBP Mouse Monoclonal Antibody [Clone ID: 1C7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1C7
Applications:	ELISA, FN, IP
Recommended Dilution:	Functional assays. ELISA both as coating and detector. Immunoprecipitation. Not useful for immunohistology neither for Western blotting.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody 1C7 reacts highly specific with human natural and recombinant LBP. Crossreactions with LBP of other species are not observed. The antibody binds poorly to LBP-LPS complexes: it interacts with the LPS binding site.
Formulation:	PBS State: Purified State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 0.1% bovine serum albumin Preservative: containing 0.02% sodium
Concentration:	lot specific
Purification:	Protein G
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	lipopolysaccharide binding protein
Database Link:	NP_004130.2 Entrez Gene 3929 Human P18428



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Background:

LPS binding protein (LBP) is an approximately 60 kDa acute phase protein that is produced by hepatocytes. This protein strongly binds to LPS and has been shown to play an important role in the handling of LPS by the host. A number of functions of LBP have been reported. First, LBP transfers LPS to the LPS receptor CD14 on mononuclear phagocytes, leading to an 100-1,000 fold increased sensitivity of the cells to LPS. Furthermore, LBP can enhance the response of CD14 negative cells by acceleration of LPS binding to soluble CD14, a complex that stimulates these cells. Next, LBP transfers LPS into High Density Lipoprotein (HDL), which effectively neutralizes its biological potency. LBP was demonstrated to protect mice from septic shock caused by LPS or gram negative bacteria.

Synonyms:

Lipopolysaccharide-binding protein

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Toll-like receptor signaling pathway