

POLYCLONAL ANTIBODY TO HUMAN LIPOPOLYSACCHARIDE BINDING PROTEIN (LBP)



Catalog nr	HP9023 (lot number and expiry date are indicated on the label)
Description	The antibody reacts with human natural and recombinant lipopolysaccharide binding protein (LBP). 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.
Species	Rabbit IgG
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The antibody is useful in Western blot and immuno precipitation. Furthermore the antibody is useful to detect LBP in ELISA both as coating and as detector.
Use	For Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
Also available	HM2043 Monoclonal antibody against Human LBP, clone 6G3 HM2044 Monoclonal antibody against Human LBP, clone 1C7 HM1026 Monoclonal antibody against Mouse LBP, clone M330-19; blocks LBP binding to LPS HM1027 Monoclonal antibody against Mouse LBP, clone RR433-8; blocks binding to CD14 HM1028 Monoclonal antibody against Mouse LBP, clone M392-2; shows no neutralizing activity