



Datasheet for ABIN343177

anti-LBP antibody



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4 Publications

Overview

Quantity:	0.1 mg
Target:	LBP
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LBP antibody is un-conjugated
Application:	ELISA, Functional Studies (Func)

Product Details

Immunogen:	LBP knock out mouse immunized with immunoaffinity purified recombinant human LBP
Clone:	BiG 412
Isotype:	IgG1
Purification:	Protein G purified

Target Details

Target:	LBP
Alternative Name:	Lipopolysaccharide (LPS)-Binding Protein (LBP) (LBP Products)
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 a 100-1,000-

Target Details

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

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Immune Effector Process](#), [Toll-Like Receptors Cascades](#), [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: inhibition of LPS binding to membrane bound CD14, inhibition titre 1:1000. Binding titre at human LBP- ELISA: 1:50.000, cross reacting with bovine LBP.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Concentration: 2.0 mg/ml (determined by mouse IgG-ELISA) before lyophilization

Buffer: with NaN₃

Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Publications

Product cited in: Muansson, Kjaell, Pellett, Nagy, Welch, Baeckhed, Frisan, Richter-Dahlfors: "Role of the lipopolysaccharide-CD14 complex for the activity of hemolysin from uropathogenic Escherichia coli." in: **Infection and immunity**, Vol. 75, Issue 2, pp. 997-1004, (2007) ([PubMed](#)).

Kato, Ogasawara, Homma, Saito, Matsumoto: "Lipopolysaccharide-binding protein critically regulates lipopolysaccharide-induced IFN-beta signaling pathway in human monocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 172, Issue 10, pp. 6185-94, (2004) ([PubMed](#)).

Berner, Füll, Stelter, Dröse, Müller, Schütt: "Elevated levels of lipopolysaccharide-binding protein and soluble CD14 in plasma in neonatal early-onset sepsis." in: **Clinical and diagnostic laboratory immunology**, Vol. 9, Issue 2, pp. 440-5, (2002) ([PubMed](#)).

Vidal, Labéta, Schiffrin, Donnet-Hughes: "Soluble CD14 in human breast milk and its role in innate immune responses." in: **Acta odontologica Scandinavica**, Vol. 59, Issue 5, pp. 330-4, (2001) ([PubMed](#)).