Legionella pneumophila LPS (serogroup 1) mouse mAb

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Applications	Detection	Clonality	Isotype
ELISA	Anti-Mouse IgG	Monoclonal	Mouse IgGk

Format: Unconjugated

Cross Reactivity: No known reactivity to other Legionella pneumophila serogroups

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Other

Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

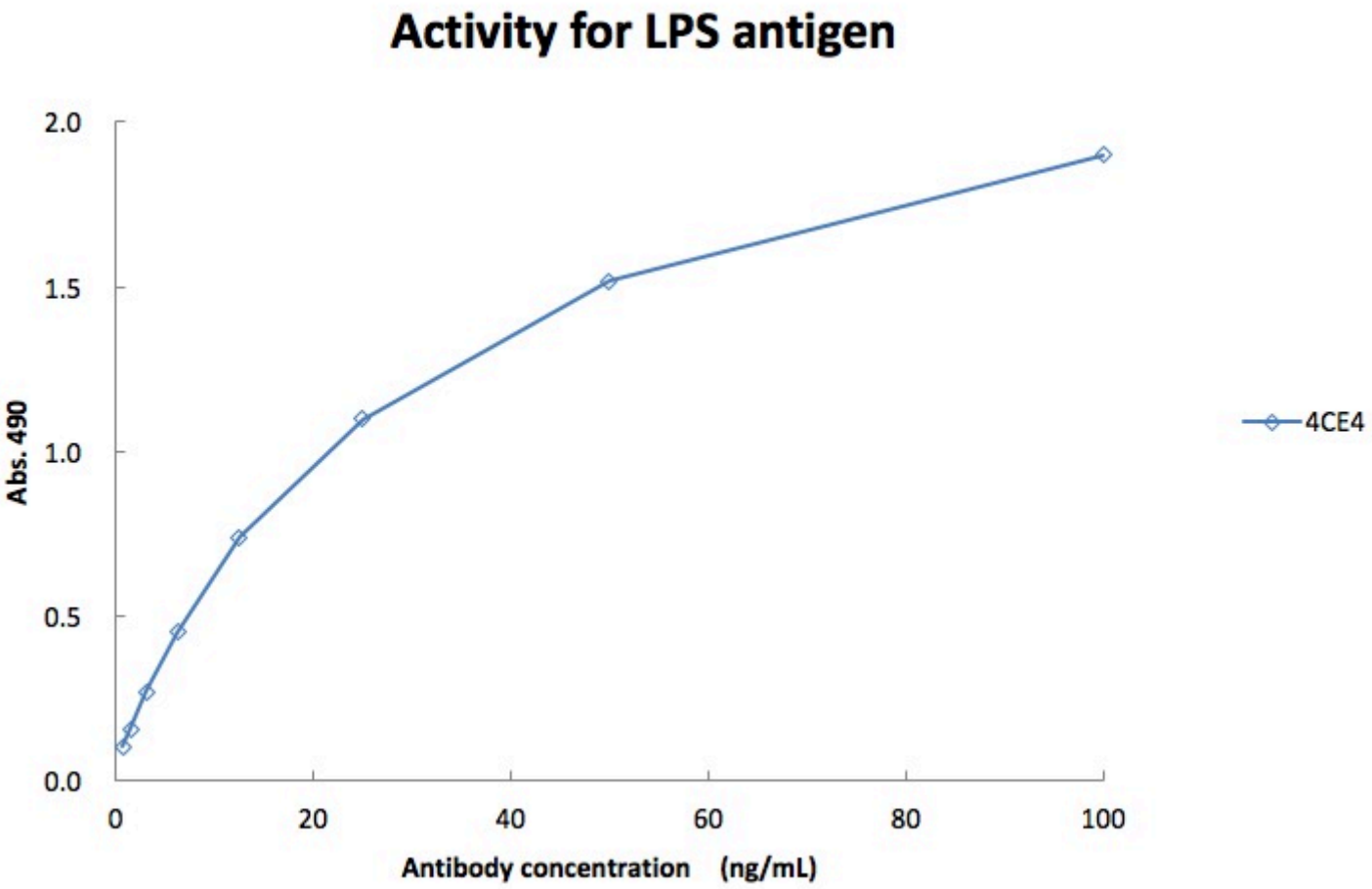
Immunogen: LPS conjugated to BSA

Description: Legionella pneumonia, first discovered after an outbreak in Pennsylvania in 1976 at the American Legion convention, is a common cause of community-acquired pneumonia. Legionella are gram-negative bacteria found in natural aquatic environments, where they are intracellular parasites of protozoa. The serogroup 1 strains most commonly cause human infections. Serotyping can be performed by antibody subgrouping, pulsed-field gele electrophoresis, or DNA sequencing. The lipopolysaccharide, LPS or endotoxin, of serogroup 1 is a bacterial virulence factor that contains 10-75 residues of the unique sugar termed legionaminic acid. Lacking free hydroxyl groups renders this LPS hydrophobic, allowing the bacterium to adhere to target cell membranes including macrophages in the lung.

References:

Ratzow S, Gaia V, Helbig JH, Fry NK, and Luck PC. (2007) Journal of Clinical Microbiology. 45: 1965-1968.
Zahringer U, Kinirel YA, Linder B, et al. (1995) Progress in Clinical Biological Research. 392: 113-139.

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AWB4CE4 antibody shows specific binding to LPS antigen from Legionella pneumophila (serogroup 1).