

Recombinant Treponema pallidum Tpp47 Antigen, His&GST tagged, Biotinylated

Cat. No. Tpp47-060T **Lot. No.** (See product label)

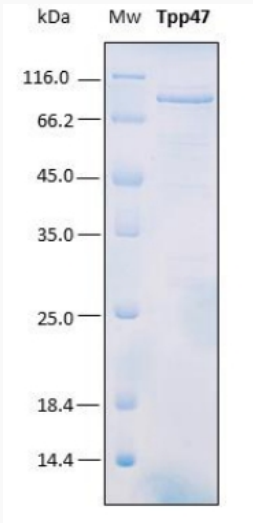
SPECIFICATION

Product Overview	The Tpp47 recombinant lipoprotein has been prepared by expressing the ORF of the corresponding gene which codifies the mature lipoprotein of 47 kDa of the spirochete Treponema pallidum and monobiotinylated in vivo.
Species	Treponema pallidum
Source	E.coli
Description	Tpp47 is one of the major antigenic components of the bacterium Treponema pallidum. It triggers an early humoral response three to six days after infection. The Tpp47 antigen has been reported as a potential marker for active syphilis disease, as anti-Tpp47 IgM have been detected in patients with congenital syphilis.
Tag	N-His&GST
Conjugation/Label	Biotin
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 116-66.2 kDa, while relative molecular mass calculated from amino acid sequence is 88,321.7 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, CE, DAS, NP, PO

 Tel: 1-631-559-9269 1-516-512-3133

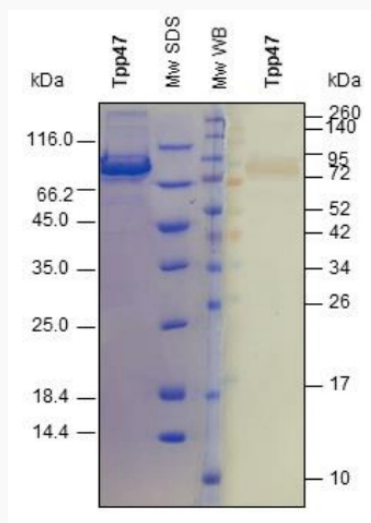
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 8, 0.3 M NaCl, 5 mM EDTA and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.25 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Ana Paula Félix de Miranda and Neuza Satomi Sato. Profile of Anti-Tp47 antibodies in patients with positive serology for syphilis analyzed by western blot. 2008, The Brazilian Journal of Infectious Diseases 12(2):139-143. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Conjugation	Biotin
Purity	

SDS-PAGE analysis (12%) of 1 μ L of recombinant Tpp47-Biot. Purity is approx. 95% as determined by gel electrophoresis.

WB



Western blot analysis in order to detect streptavidin /biotin reaction. The incubation was performed with HRP conjugated streptavidin (1:2500).

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