

## Treponema pallidum TmpA (23-41, 288-325) - Purified

<b>Catalog No.:</b>	AR10494PU-S
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	Treponema pallidum is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: <i>T. pallidum pallidum</i> , <i>T. pallidum pertenuis</i> , <i>T. pallidum carateum</i> and <i>T. pallidum endemicum</i> . The helical structure of <i>T. pallidum pallidum</i> allows it to move in a corkscrew motion through viscous mediums such as mucus. <i>Treponema pallidum sub sp. pallidum</i> has one of the smallest bacterial genomes at 1.14 million base pairs (Mb) and has limited metabolic capabilities, reflecting its adaptation through genome reduction to the rich environment of mammalian tissue.
<b>Source:</b>	<i>E. coli</i>
<b>Format:</b>	<b>Purity:</b> >95% pure as determined by 10% PAGE (coomassie staining). <b>Purification Method:</b> Proprietary chromatographic technique. <b>Buffer System:</b> 10mM Tris-HCl pH8.0, 20mM DDT, 1mM EDTA and 8M Urea
<b>Applications:</b>	This protein binds to murine anti-TmpA protein monoclonal antibodies and <i>Treponema pallidum</i> converted Human Serum polyclonal antibodies in ELISA and Western Elisa. Dot Blots and Lateral Flow immunochromatographic diagnostics test. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Description:</b>	The <i>E. coli</i> derived 68kDa recombinant protein contains the Trp. Pallidum TmpA immunodominant regions, 23-41 amino acids and 288-325 amino acids. <b>Specificity:</b> Immunoreactive with sera of Trp. Pallidum infected individuals.
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.