

AP00765PU-N**Polyclonal Antibody to Mycobacterium (genus specific) - Purified**

Quantity:	1 mg
Concentration:	3.0 mg/ml (OD280nm, E0.1% = 1.4)
Background:	<p><i>Mycobacterium tuberculosis</i> is the most common cause of tuberculosis and is one of the world's most harmful human pathogens. The 38 kDa antigen of <i>M. tuberculosis</i> (MT 38 kDa antigen) induces cellular and humoral immune responses by acting through TLR2 and TLR4 to activate the ERK1/2 and p38 MAPK pathways, which promote the expression of TNFα and IL-6 during mycobacterial infection. The 16 kDa antigen of <i>Mycobacterium tuberculosis</i> (MT 16 kDa antigen) provokes specific immune responses in an infected host, making it a target for peptide-based diagnostic reagents and subunit vaccines. Rv2623, an ATP-binding protein, is an <i>M. tuberculosis</i> dormancy regulon that may be involved in the response to environmental signals by <i>M. tuberculosis</i>. Rv2623 shares homology with a family of prokaryotic universal stress proteins. RV3134, a related protein, is also an <i>M. tuberculosis</i> dormancy regulon.</p>
Host:	Guinea Pig
Immunogen:	Genus specific antigens extracted from <i>Mycobacterium tuberculosis</i> .
Format:	State: Liquid purified Ig fraction Purification: Protein G Chromatography Buffer System: Citrate Phosphate Preservatives: None
Applications:	ELISA: AP00765PU-N can be used either as Capture or Detection Antibody. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts primarily against lipo-arabinomannan (LAM). Reacts with several membrane proteins by Western blot. Cross-reacts against all Mycobacterial species.
Storage:	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.