

Recombinant *A. phagocytophilum* (strain HZ) p44 Antigen, His tagged

Cat. No. p44-043A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The p44 outer membrane protein (p44-18ES) has been prepared as a recombinant mature protein (complete protein without leader peptide) fused to a his-tag in its N-terminal.
Species	<i>A. phagocytophilum</i> (strain HZ)
Source	E.coli
Description	p44 is the immunodominant, most abundant outer membrane protein of <i>Anaplasma phagocytophilum</i> , an obligate intracellular bacteria that causes a tick-borne zoonosis termed human granulocytic anaplasmosis (HGA), the most common tick transmitted disease after borreliosis. The immunodominant polymorphic 44-kDa major surface proteins of <i>A. phagocytophilum</i> , is a member of the p44/msp2 multigene family and are encoded by more than 80 p44 paralogs dispersed throughout the genome. The 44-kDa-protein-specific antibodies play a role in immunity against infection. This immunogenic antigen is therefore important in pathogenesis and laboratory diagnosis.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between the molecular markers of 62 and 45 kDa, while relative molecular mass calculated from amino acid sequence is 46,060.39 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis

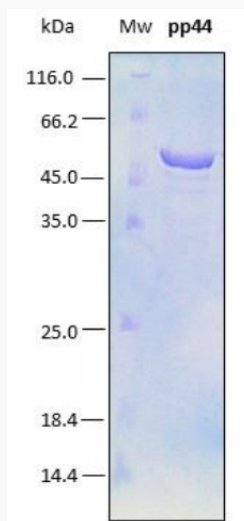
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Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM Hepes pH 8, 0.15 M NaCl, 0.13 M trehalose and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.41 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Lin, Q., Rikihisa, Y., Massung, R., Woldehiwet, Z. and R. C. Falco. Polymorphism and Transcription at the p44-1/p44-18 Genomic Locus in Anaplasma phagocytophilum Strains from Diverse Geographic Regions. 2004. Infection and Immunity, 10, 5574–5581. 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.

Purity



SDS-PAGE analysis (15%) of 5 μ L of recombinant p44. Purity is approx. 95% as determined by gel electrophoresis.

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