Recombinant Mycoplasma pneumoniae P30 Antigen, His&TrxA tagged

Cat. No. P30-084M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant protein contains the main part of the P30 adhesin protein, which, together with P1, acts as a potent immunogen that results in high titers of specific antibodies in the serum of patients with acute M. pneumoniae infections. It has been expressed as a recombinant antigen fused to a his-tag in its N-terminus.
Species	Mycoplasma pneumoniae
Source	E.coli
Description	P30 is a membrane-bound protein that orients with the N terminus in the cytoplasm and the C terminus exposed on the cell surface, thus can be exploited for the immunodetection of M. pneumoniae-infected human sera. It has been described in the bibliography that the adhesion protein P30 is together with P1, a potent immunogen that results in high titers of specific antibodies in the serum of patients with acute M. pneumoniae infection. The C-terminal region of P30 is dominated by proline-rich repeating motifs similar to those found near the C terminus of P1. Both the area near the C-terminus of P1 and P30 seem crucial for adhesion to various cell types.
Tag	N-His&TrxA
Molecular Mass	Determined by SDS-PAGE, the protein bands are two and between molecular markers of 35-45 kDa, while relative molecular mass calculated from amino acid

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	sequence is 36,416.62 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
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 phosphate buffer pH 6, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	2.13 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Layh-Schmitt, G., Himmelreich, R. and U. Leibfried. The adhesin related 30-kDa protein of Mycoplasma pneumoniae exhibit size and antigen variability. 1997. FEMS Microbiology Letters, 152: 101-108. 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.

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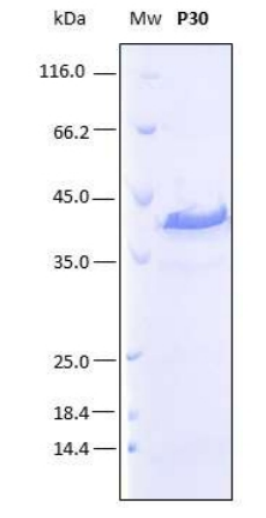
Purity	 SDS-PAGE analysis (15%) of 3 µL of recombinant P30 adhesin. Purity is > 95% as determined by gel electrophoresis.

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