

# Recombinant *S.aureus* Immunoglobulin G Binding Protein A

Cat. No. spa-515S Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant <i>Staphylococcus aureus</i> Protein A was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =48.1 kDa (434aa).
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	Protein A is a 40-60kDa surface protein originally found in the cell wall of the bacteria <i>Staphylococcus aureus</i> . It binds with high affinity to human IgG1 and IgG2 as well as mouse IgG2a and IgG2b. Protein A binds with moderate affinity to human IgM, IgA and IgE as well as to mouse IgG3 and IgG1. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.
<b>Amino Acid Sequence</b>	<p>MAQHDEAQQN AFYQVLNMPN LNADQRNGFI QSLKDDPSQS ANVLGEAQKL  NDSQAPKADA QQNNFNKDQQ SAFYEILNMP NLNEAQRNGF IQSLKDDPSQ  STNVLGEAKK LNESQAPKAD NNFNKEQQNA FYEILNMPNL NEEQRNGFIQ  SLKDDPSQSA NLLSEAKKLN ESQAPKADNK FNKEQQNAFY EILHLPNLNE  EQRNGFIQSL KDDPSQSANL LAEAKKLND A QAPKADNKFN KEQQNAFYEI  LHLPNLTEEQ RNGFIQSLKD DPSVSKEILA EAKKLND AQA PKEEDNNKPG  KEDNNKPGKE DNNKPGKEDG NKP GKEDNKK PGKEDNKKPG KEDNKKPGKE  DGNKPGKEDN KKPGKEDGNG VHVVKPGDTV NDI AKANGTT ADKIAADNKL  ADKNMIKPGQ ELVVDKKQPA NHADANKAQA LPET.</p>
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

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<b>Purity</b>	> 90% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by BCA assay).
<b>Endotoxin Level</b>	< 1.0 EU per 1 µg of protein (determined by LAL method ).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">spa immunoglobulin G binding protein A [ Staphylococcus aureus subsp. aureus USA300_TCH1516 ]</a>
<b>Synonyms</b>	spa; immunoglobulin G binding protein A
<b>Gene ID</b>	<a href="#">5775424</a>
<b>mRNA Refseq</b>	<a href="#">YP_001574038</a>

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