ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Anti-Streptococcus suis Sao L protein and controls

Cat # SSP11-S	Rabbit Anti-Streptococcus suis Sao L antiserum	**Size**: 100 ul
Cat # SSP11-C	Recombinant Streptococcus suis Sao L protein control for Western Blot	**Size**: 100 ul

Streptococcus suis (*S. suis*) is a family of pathogenic gram-positive bacterial strains that represents a primary health problem in pigs that can cause severe systemic infection in humans. *S. suis* is also an emerging zoonotic pathogen that causes severe human infections clinically featuring with varied diseases/syndromes (such as meningitis, septicemia, and arthritis). Of the 35 known serotypes, only a limited number are responsible for infections in pigs, including serotypes 1-9 and 14. Serotype 2 is considered to be the most pathogenic for both humans and pigs. S. suis is usually transmitted nasally or orally and colonizes the palatine tonsils of both clinically ill and healthy pigs.

Surface antigen one (Sao) protein is a bacterial surface protein identified in the important zoonotic pathogen Streptococcus suis serotype 2 (S. suis 2) during an extensive search for functional proteins. The Sao protein is anchored to the bacterial cell wall by the LPVTG motif and is widely distributed in many S. Three allelic variants of the *sao* gene (namely *sao-S*, *sao-M*, and *sao-L*) are present in *S. suis* population.

Source of Antigen and Antibodies

Antigen	recombinant S. suis/Sao-L/39-354 AA protein (protein accession # AAX57440.1
Ab Host/type	Rabbit, Polyclonal antiserum **(cat # SSP11-S)**
2-ab	**Goat Anti-rabbit IgG-HRP** cat # 20320 (AP, biotin, FITC conjugates also available)
-ve control IgG	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC as –ve control

Cat # SSP11-C

Recombinant S. suis/Sao-L/39-354 AA protein was expressed in E. coli and purified (>95%). For Western blot +ve control (**Cat # SSP11-C**) is supplied in SDS-PAGE sample buffer (reduced). Load 10 ul/lane of **SSP11-C** for good visibility with rabbit antibody Cat # **SSP11-S**. Store at -20ºC in suitable size aliquots. SDS may crystallize in cold conditions. It should redissolve by warming before taking it from the stock. It should be heated once prior to loading on gels. If the product has been stored for several weeks, then it may be preferable to add 5 ul of fresh 2x sample buffer per 10 ul of the **SSP11-C** solution prior to heating and loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where native protein is required. Do not freeze, thaw, or heat repeatedly.

Form & Storage of Antibodies

Antiserum

☐ 100 ul ☐ Solution ☐ Lyophilized powder

Buffer: PBS + 0.1% azide

Reconstitute powder in 100 ul of PBS

Storage

Short-term: unopened, undiluted vials for less than a week at 4ºC.

Long-term: at -20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20ºC or below.
Shipping: 4ºC for solutions and room temp for powder.

Recommended Usage

Western Blotting 1:1000-1:5K

ELISA:

Histochemistry & Immunofluorescence:

*This product is for In vitro research use only.

SSP11-S-C 190114AC

Alpha Diagnostic Intl Inc., 4638 N Loop 1604 West, San Antonio, TX 78249, USA; **Email**: techsupport@4adi.com
☎ (800) 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com