

Se18.9 (H-6): sc-393707

BACKGROUND

Se18.9 is a 163 amino acid protein of *Streptococcus equi* origin. Surface proteins of bacterial species are usually involved in interaction with host proteins, and potentially act as biomarkers for serodiagnosis and subunit vaccine components. *Streptococcus equi* subspecies *equi* (*S. equi*) is a clonal, equine host-adapted pathogen that causes strangles. Strangles is a highly prevalent, highly contagious disease characterized by tonsillitis and lymphadenitis of the head and neck. Some symptoms of strangles may include fever, depression, and submandibular and retropharyngeal lymph node enlargement that can lead to respiratory distress. The infection is transmitted by inhalation of *S. equi* or direct contact with mucopurulent discharge from an infected animal.

REFERENCES

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- Webb, K., Barker, C., Harrison, T., Heather, Z., Steward, K.F., Robinson, C., Newton, J.R. and Waller, A.S. 2012. Detection of *Streptococcus equi* subspecies *equi* using a triplex qPCR assay. *Vet. J.* 195: 300-304.

SOURCE

Se18.9 (H-6) is a mouse monoclonal antibody raised against amino acids 1-163 representing full length Se18.9 of *Streptococcus equi* subsp. *equi* origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Se18.9 (H-6) is recommended for detection of Se18.9 of *S. equi* strain 4047 of *Streptococcus equi* subsp. *equi* origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

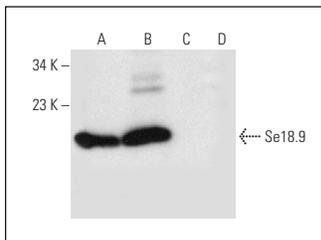
Molecular Weight of Se18.9: 20 kDa.

Positive Controls: *Streptococcus equi* whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Se18.9 (H-6): sc-393707. Western blot analysis of Se18.9 expression in *Streptococcus equi* (virulent) (A), *Streptococcus equi* (avirulent) (B), *Rhodococcus equi* (C) and *Escherichia coli* (D) whole cell lysates. Note lack of reactivity with unrelated bacterial lysates in lanes C and D.

SELECT PRODUCT CITATIONS

- Perugini, J., Di Mercurio, E., Tossetta, G., Severi, I., Monaco, F., Reguzzoni, M., Tomasetti, M., Dani, C., Cinti, S. and Giordano, A. 2019. Biological effects of ciliary neurotrophic factor on hMADS adipocytes. *Front. Endocrinol.* 10: 768.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.