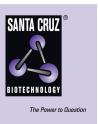
SANTA CRUZ BIOTECHNOLOGY, INC.

EAG (F-8): sc-377433



BACKGROUND

Streptococcus equi subspecies equi (S. equi) is a host-restricted pathogen that is the cause of a prevalent and infectious equine disease known as strangles. Highly contagious, strangles causes a profound inflammatory response, with symptoms including lymphodendopathy of the head and neck, fever, nasal discharge and lack of appetite in the affected horse. Strangles is most commonly a problem in young horses as their immune systems are not fully developed. EAG (Ig, α 2-macroglobulin and albumin binding protein EAG (*Streptococcus equi* subspecies *equi* 4047) is a 429 amino acid protein.

REFERENCES

- Chanter, N., et al. 2000. Streptococcus equi with truncated M-proteins isolated from outwardly healthy horses. Microbiology 146: 1361-1369.
- 2. Harrington, D.J., et al. 2002. The molecular basis of *Streptococcus equi* infection and disease. Microbes Infect. 4: 501-510.
- 3. Timoney, J.F. 2004. The pathogenic equine streptococci. Vet. Res. 35: 397-409.
- Davidson, A., et al. 2008. Lack of correlation between antibody titers to Fibrinogen-binding protein of *Streptococcus equi* and persistent carriers of strangles. J. Vet. Diagn. Invest. 20: 457-462.
- Holden, M.T., et al. 2009. Genomic evidence for the evolution of *Streptococcus equi*: host restriction, increased virulence, and genetic exchange with human pathogens. PLoS Pathog. 5: e1000346.
- Boyle, A. 2011. Streptococcus equi subspecies equi infection (strangles) in horses. Compend. Contin. Educ. Vet. 33: E1-E7.
- 7. Waller, A.S., et al. 2011. *Streptococcus equi:* a pathogen restricted to one host. J. Med. Microbiol. 60: 1231-1240.

SOURCE

EAG (F-8) is a mouse monoclonal antibody raised against amino acids 1-429 representing full length EAG of *Streptococcus equi* subsp. *equi* origin.

PRODUCT

Each vial contains 200 $\mu g~lgG_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EAG (F-8) is recommended for detection of Ig, α 2-macroglobulin and albumin binding protein EAG of strains 4047, zooepidemicus and MGCS10565 of *S. equi* origin of *Streptococcus 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 EAG: 54 kDa.

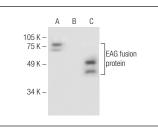
RESEARCH USE

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

STORAGE

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

DATA



EAG (F-8): sc-377433. Western blot analysis of *Streptococcus equi* recombinant EAG (1-429) (**A**), EAG (1-214) (**B**) and EAG (215-429) (**C**) fusion proteins.

PROTOCOLS

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