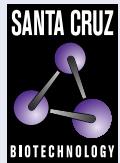


# IdeE2 (C-1): sc-514333



The Power to Question

## 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.

## REFERENCES

1. Chanter, N., Talbot, N.C., Newton, J.R., Hewson, D. and Verheyen, K. 2000. *Streptococcus equi* with truncated M-proteins isolated from outwardly healthy horses. *Microbiology* 146: 1361-1369.
2. Harrington, D.J., Sutcliffe, I.C. and Chanter, N. 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.
4. Davidson, A., Traub-Dargatz, J.L., Magnuson, R., Hill, A., Irwin, V., Newton, R., Waller, A., Smith, K., Callan, R.J., Meehan, M., Owen, P. and Salman, M. 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.
5. Holden, M.T., Heather, Z., Paillot, R., Steward, K.F., Webb, K., Ainslie, F., Jourdan, T., Bason, N.C., Holroyd, N.E., Mungall, K., Quail, M.A., Sanders, M., Simmonds, M., Willey, D., Brooks, K., Aanensen, D.M., Spratt, B.G., Jolley, K.A., Maiden, M.C., Kehoe, M., 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.
6. Boyle, A. 2011. *Streptococcus equi* subspecies *equi* infection (strangles) in horses. *Compend. Contin. Educ. Vet.* 33: E1-E8.
7. Waller, A.S., Paillot, R. and Timoney, J.F. 2011. *Streptococcus equi*: a pathogen restricted to one host. *J. Med. Microbiol.* 60: 1231-1240.

## SOURCE

IdeE2 (C-1) is a mouse monoclonal antibody raised against amino acids 1-385 representing full length IdeE2 of *Streptococcus equi* subsp. *equi* origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IdeE2 (C-1) is available conjugated to agarose (sc-514333 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514333 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514333 PE), fluorescein (sc-514333 FITC), Alexa Fluor® 488 (sc-514333 AF488), Alexa Fluor® 546 (sc-514333 AF546), Alexa Fluor® 594 (sc-514333 AF594) or Alexa Fluor® 647 (sc-514333 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514333 AF680) or Alexa Fluor® 790 (sc-514333 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

## APPLICATIONS

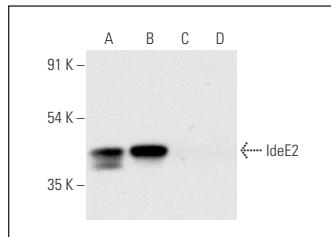
IdeE2 (C-1) is recommended for detection of IdeE2 of *S. equi* subsp *equi* 4047 origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgG<sub>κ</sub> BP-HRP: sc-516102 or m-IgG<sub>κ</sub> 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-IgG<sub>κ</sub> BP-FITC: sc-516140 or m-IgG<sub>κ</sub> 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



IdeE2 (C-1): sc-514333. Western blot analysis of IdeE2 expression in *Streptococcus equi* (virulent) (**A**), *Streptococcus equi* (avirulent) (**B**), *Rhodococcus equi* (**C**) and *Escherichia coli* (**D**) whole cell lysates. Note lack of reactivity in *Rhodococcus equi* (Lane **C**) and *Escherichia coli* (Lane **D**).

## STORAGE

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

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.