

EAG (C-7): sc-377446

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

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SOURCE

EAG (C-7) is a mouse monoclonal antibody raised against amino acids 215-429 of EAG of *Streptococcus equi* subsp. *equi* origin.

PRODUCT

Each vial contains 200 μ g IgG_{2b} 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.

RESEARCH USE

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

APPLICATIONS

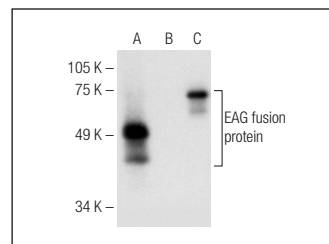
EAG (C-7) is recommended for detection of EAG of *S. equi* origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of EAG: 54 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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 κ BP-FITC: sc-516140 or m-IgG κ 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



EAG (C-7): sc-377446. Western blot analysis of *Streptococcus equi* recombinant EAG (215-429) (A), EAG (1-214) (B) and EAG (1-429) (C) fusion proteins.

PROTOCOLS

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