Se46.8 (C-10): sc-377238



The Power to Question

BACKGROUND

Se46.8, also known as surface protein Se46.8, is an 86 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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SOURCE

Se46.8 (C-10) is a mouse monoclonal antibody raised against amino acids 1-86 representing full length Se46.8 of *Streptococcus equi* subsp. *equi* origin.

PRODUCT

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

Se46.8 (C-10) is available conjugated to agarose (sc-377238 AC), 500 $\mu g/0.25$ ml agarose in 1 ml, for IP; to HRP (sc-377238 HRP), 200 $\mu g/ml$, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377238 PE), fluorescein (sc-377238 FITC), Alexa Fluor® 488 (sc-377238 AF488), Alexa Fluor® 546 (sc-377238 AF546), Alexa Fluor® 594 (sc-377238 AF594) or Alexa Fluor® 647 (sc-377238 AF647), 200 $\mu g/ml$, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377238 AF680) or Alexa Fluor® 790 (sc-377238 AF790), 200 $\mu g/ml$, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

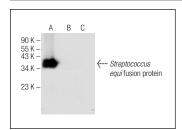
Se46.8 (C-10) is recommended for detection of Surface protein Se46.8 of *Streptococcus equi* subsp. *equi 4047* and *Streptococcus equi* subsp. *zooepidemicus MGCS10565* origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of 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 Se46.8: 9 kDa.

RECOMMENDED SUPPORT REAGENTS

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



Se46.8 (C-10): sc-377238. Western blot analysis of Streptococcus equi recombinant Se46.8 (FL-86) (A), Se51.9 (FL-237) (B) and EAG (FL-429) (C) fusion proteins.

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 for detailed protocols and support products.

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