

BVDV (13/G4): sc-101592

BACKGROUND

BVDV (bovine viral diarrhea virus) is a viral disease of ruminants, such as cattle, bison, yaks, deer and goats, that is a member of the Pestivirus genus. BVDV has two different biotypes, cytopathic and non-cytopathic, with 99% of field strains of BVDV being non-cytopathic. Infection with BVDV can result in symptoms of varying intensity, including fever, diarrhea, pneumonia, lameness, abortion or early embryonic death, oral lesions and decreasing milk production. Infected animals can shed the virus in the air, manure and body secretions, which increases the risk of infection for animals in the livestock trade or pasturing animals. Calves who become infected with BVDV while in the womb will become persistent infected (PI), animals who will continuously shed the virus throughout their lifetime.

REFERENCES

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RESEARCH USE

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

SOURCE

BVDV (13/G4) is a mouse monoclonal antibody raised against a lysate of bovine cells infected with the Nadl isolate of BVDV.

PRODUCT

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

BVDV (13/G4) is available conjugated to agarose (sc-101592 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-101592 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-101592 PE), fluorescein (sc-101592 FITC), Alexa Fluor[®] 488 (sc-101592 AF488), Alexa Fluor[®] 546 (sc-101592 AF546), Alexa Fluor[®] 594 (sc-101592 AF594) or Alexa Fluor[®] 647 (sc-101592 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-101592 AF680) or Alexa Fluor[®] 790 (sc-101592 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

BVDV (13/G4) is recommended for detection of the p125/p80 non-structural region of Bovine Viral Diarrhea Virus of pestiviruses origin by immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

STORAGE

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

PROTOCOLS

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