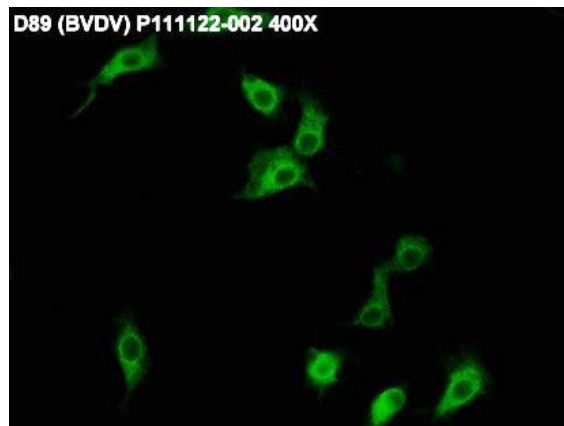


CERTIFICATE OF ANALYSIS

D89

Monoclonal Antibody

Catalog No. / Cell Line:	D89
Lot:	P111122-002
Isotype:	IgG _{2a}



Specificity:

Bovine Viral Diarrhea Virus 55 kDa glycoprotein. Made using NADL strain. Binds to most BVDV strains. Does not bind to Oregon C24V strain.

Known Applications:

Immunofluorescence, immunohistochemistry, virus neutralization.

Description:

This monoclonal antibody is produced as mouse ascites fluid, clarified by centrifugation, and filtered through a 0.2 µm filter. The antibody concentration is 1.0 mg/ml, in phosphate-buffered saline (PBS), stabilized with 4 mg/ml bovine serum albumin (BSA), and preserved with 0.09% sodium azide (NaN₃).

Quality Control Method:

Indirect FA using BVDV-1 (Modderman) slide (In House), Isotype Control IgG_{2a} (1.0 mg/ml), and Anti-Mouse AP Conjugate (catalog no. CJ-F-MURG-AP-10ML). The concentration was tested in RID with a mouse Immunoglobulins kit IgG_{2a}.

Specific Reaction: 3-4+ fluorescence at 100µg/ml with no background. The isotype control was negative. The endpoint concentration was trace to 1+ at 0.1 µg/ml. RID results showed a concentration of 1.17 mg/ml.

Other Comments: NA

Pattern of Fluorescence:

Individual cells with smooth, undifferentiated and/or “ground glass” cytoplasmic fluorescence.

Storage:

When the vial is stored at 2-7°C, it should be stable for one year.

References:

Magar R, Minocha HC, Montpetit C, et al. Typing of cytopathic and noncytopathic bovine viral diarrhea virus reference and Canadian field strains using a neutralizing monoclonal antibody. *Can J Vet Res* 1988;52.(1): 42-45.
Vickers ML, Minocha HC. Diagnosis of bovine viral diarrhea virus infection using monoclonal antibodies. *J Vet Diag Invest* 1990; 2(4):300-302.

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- Minocha HC, Xue W, Reddy JR. A 50 kDa membrane protein from bovine kidney cells is a putative receptor for bovine viral diarrhea virus (BVDV). *Adv Exp Med Biol* 1997;412:145-158.
- Xue W, Zhang S, Minocha HC. Characterization of a putative receptor protein for bovine viral diarrhea virus. *Vet Microbiol* 1997;57(2-3):105-118.
- Zheng L, Shang S, Xue W, et al. Expression of a 50 kDa putative receptor for bovine viral diarrhea virus in bovine fetal tissues. *Can J Vet Res* 1998;62(2):156-159.