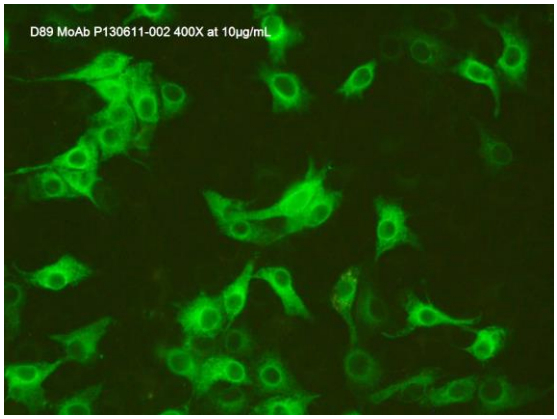
Veterinary Medical Research & Development

CERTIFICATE OF ANALYSIS

D89

Monoclonal Antibody

Catalog No.:	D89
Lot:	P130611-002
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 (NaN_3).

Quality Control Method:

Indirect FA using BVDV-1 (Modderman) 12-well (in house slide), Isotype control IgG_{2a} and Anti-Mouse AP conjugate (catalog no. CJ-F-MURG-AP-1ML or 10ML). The concentration was tested in RID with a murine Immunoglobulin IgG_{2a} kit.

Specific Reaction:	2-4+ fluorescence at 10µg/ml with no background and an endpoint concentration less than 0.01µg/ml. The Isotype control was negative with no background. The RID results showed a concentration of 1.7mg/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.

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.