

**CERTIFICATE OF ANALYSIS**

D89

Monoclonal Antibody

Catalog No.:	D89
Lot:	P130906-001
Isotype:	IgG <sub>2a</sub>
Expiration:	1 year when stored at 2-7°C



**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<sub>3</sub>).

**Quality Control Method:**

Indirect FA using BVDV-1 (Modderman) 12-well (in house slide), isotype control IgG<sub>2a</sub> and anti-murine affinity purified conjugate (catalog no. CJ-F-MURG-AP-1ML or 10ML). Mouse Immunoglobulin IgG<sub>2a</sub> kit.

**Specific Reaction:** 1-3+ fluorescence at 10 µg/ml with an endpoint concentration less than 0.1 µg/ml. The isotype control was negative with no background. The RID kit test showed a concentration of 0.845 mg/ml.

**Other Comments:** NA

**Pattern Of Fluorescence:**

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

**Storage:**

This monoclonal antibody is provided in liquid form and should be stored at 2-7°C. DO NOT FREEZE!

**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.

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25 November 2013