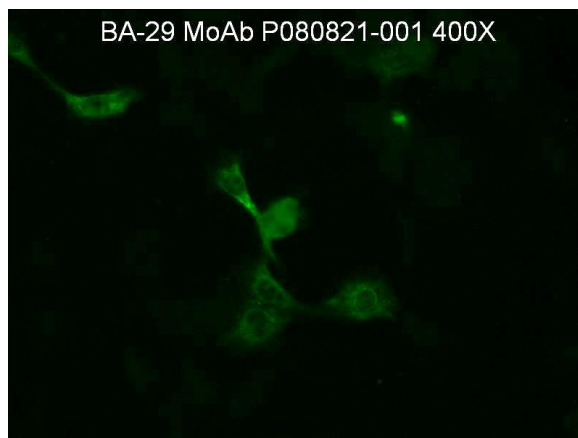


CERTIFICATE OF ANALYSIS

BA-29

Monoclonal Antibody

Catalog No. / Cell Line:	BA-29
Lot:	P080821-001
Isotype:	IgG _{2a}



Specificity:

Binds to the E2 (gp53) protein of type 2 Bovine Viral Diarrhea virus (BVDV2). Reacts specifically with BVDV2 virus.

Note: BVDV1 genotypes usually produce only mild diarrhea in immunocompetent cattle, while BVDV2 genotypes can produce thrombocytopenia, hemorrhages, and acute fatal disease. The viruses of either genotype may exist as one of two biotypes, cytopathic or noncytopathic.

Known Applications:

Can be used as a typing reagent for BVDV2 using indirect immuno-fluorescence or indirect immunoperoxidase reactions.

Description and Handling:

This monoclonal antibody is produced as mouse ascites fluid, clarified by centrifugation, and filtered through a 0.2 µM filter. The concentration is 1.0 mg/ml in phosphate-buffered saline, preserved with sodium azide.

Storage:

When the vial is stored at 2-8°C, it should be stable for one year.

Quality Control Method:

Indirect FA using BVDV Type 1 (Modderman) slide (VMRD catalog no. SLD-IFA-BVD), Type 2 (TN 131) slide, and anti-mouse IgG (VMRD catalog no. 095-10).

Result: 1-4+ positive fluorescence at 1:10 dilution in FA Conjugate Diluting Buffer (VMRD catalog no. 210-91-CB) on BVDV Type 2; negative on BVDV Type 1 at 1:10 dilution.

References:

- Deregt, D., *et al.* Monoclonal antibodies to the E2 protein of a new genotype (type 2) of bovine viral diarrhea virus define three antigenic domains involved in neutralization. *Virus Research* 57(2):171-181 (Oct. 1998).
- Deregt, D., and S. Prins. A monoclonal antibody-based immunoperoxidase layer (micro-isolation) assay for detection of type 1 and type 2 bovine viral diarrhea viruses. *Can. J. Vet. Res.* 62(2):152-155 (Apr. 1998).

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