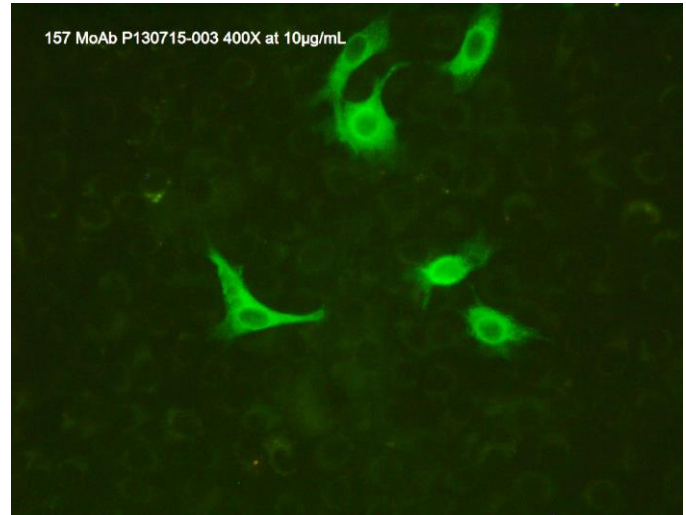


**CERTIFICATE OF ANALYSIS**

157

Monoclonal Antibody

Catalog No.:	157
Lot:	P130715-003
Isotype:	IgG <sub>2a</sub>
Expiration:	1 year when stored at 2-7°C



**Specificity:**

Bovine Viral Diarrhea Virus Type 1 (BVDV-1) MAb  
Ascites E2 gp53 IgG<sub>2a</sub> Isotype.

**Known Applications:**

Can be used as a typing reagent for BVDV-1 using indirect immunofluorescence or indirect immunoperoxidase reactions. This monoclonal antibody has also been used in virus neutralization assays.

**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), BVDV-2 (TN131) 12-well (in house slide), isotype control IgG<sub>2a</sub>, and anti-murine IgG affinity purified conjugate (catalog no. CJ-F-MURG-AP-1ML or 10ML). Mouse immunoglobulins IgG<sub>2a</sub> kit.

**Specific Reaction:** 1-4+ fluoresce at 100 µg/ml with an endpoint of trace to 1+ at 0.1 µg/ml. The isotype control was negative with no background. The RID test showed a concentration of 1.092 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:

- Deregt, D., *et al.* Monoclonal antibodies to the E2 protein of a new genotype (type 2) of bovine viral diarrhoea virus define three antigenic domains involved in neutralization. *Virus Res.* 57(2):171-181 (Oct. 1998).
- Deregt, D., and S. Prins. A monoclonal antibody-based immunoperoxidase layer (microisolation) assay for detection of type 1 and type 2 bovine viral diarrhoea viruses. *Can. J. Vet. Res.* 62(2):152-155 (Apr. 1998).
- Deregt, D., *et al.* Mapping of a type 1-specific and a type-common epitope on the E2 (gp53) protein of bovine viral diarrhoea virus with neutralization escape mutants. *Virus Research* 53(1): 81-90 (Jan. 1998).
- Deregt, D., *et al.* Monoclonal antibodies to bovine viral diarrhoea virus: Cross-reactivities to field isolates and hog cholera virus strains. *Can. J. Vet. Res.* 58:71-74 (1994).
- Deregt, D., *et al.* Monoclonal antibodies to the p80/125 and gp53 proteins of bovine viral diarrhoea virus: Their potential use as diagnostic reagents. *Can. J. Vet. Res.* 54:343-348 (1990).