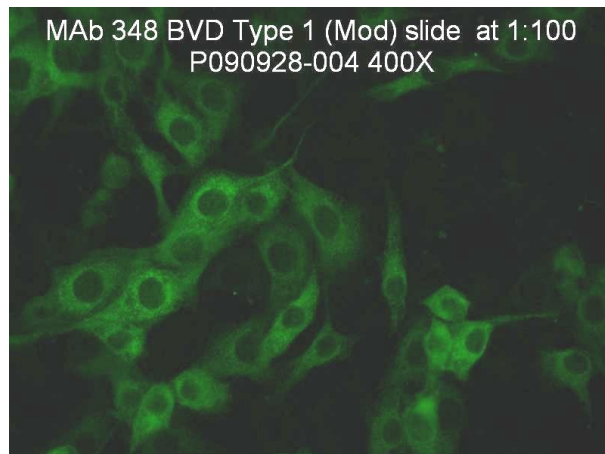


**CERTIFICATE OF ANALYSIS**

**BVDV 348**

Monoclonal Antibody

<b>Catalog No. / Cell Line:</b>	348
<b>Lot:</b>	P090928-004
<b>Isotype:</b>	IgG <sub>2b</sub>



**Known Applications:**

Can be used as a reagent to detect both BVDV-1 and BVDV-2 using indirect immunofluorescence or indirect immunoperoxidase reactions. This monoclonal antibody has also been used in virus neutralization assays.

**Known Virus Reactivity:**

Bovine viral diarrhea virus (BVDV-1 and BVDV-2)

**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, stabilized with 4 mg/ml bovine serum albumin (BSA) and preserved with 0.09% sodium azide.

**Quality Control Method:**

Indirect FA using BVDV-1 (Modderman) slide, Isotype Control IgG<sub>2b</sub>, and Anti-Mouse CJ (catalog no. 095-1 or 095-10).

**Specific Reaction:** 3-4+ at 1:100 on BVDV-1 (Mod) slide. Endpoint titer > 1:10,000. Isotype IgG<sub>2b</sub> was negative.

**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:**

- Deregt, D., *et al.* Monoclonal antibodies to the p80/125 and gp53 proteins of bovine viral diarrhea virus: Their potential use as diagnostic reagents. *Can. J. Vet. Res.* 54:343-348 (1990).
- Deregt, D., *et al.* Monoclonal antibodies to bovine viral diarrhea virus: Cross-reactivities to field isolates and hog cholera virus strains. *Can. J. Vet. Res.* 58:71-74 (1994).
- Deregt, D., *et al.* Mapping of a type 1-specific and a type-common epitope on the E2 (gp53) protein of bovine viral diarrhea virus with neutralization escape mutants. *Virus Research* 53(1): 81-90 (Jan. 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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- 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 Res.* 57(2):171-181 (Oct. 1998).
- Kelling, C.L., *et al.* Characterization of protection from systemic infection and disease by use of a modified-live noncytopathic bovine viral diarrhea virus type 1 vaccine in experimentally infected calves. *Am. J. Vet. Res.* 66(10):1785-1791 (Oct. 2005).
- Topliff CL, *et al.* Prevalence of bovine viral diarrhea virus infections in alpacas in the United States. *J Am Vet Med Assoc.* 2009 Feb 15;234(4):519-29.