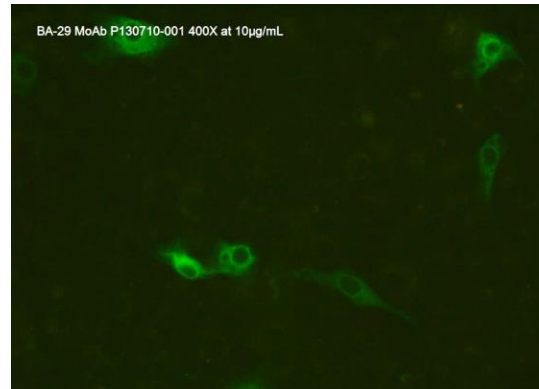


CERTIFICATE OF ANALYSIS

BA-29

Monoclonal Antibody

Catalog No.:	BA-29
Lot:	P130710-001
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:

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 (NaN₃).

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_{2a} and Anti-Mouse AP conjugate (catalog no. CJ-F-MURG-AP-10ML). Mouse Immunoglobulins IgG_{2a} RID kit.

Specific Reaction: 1-2+ fluorescence at 10µg/ml, no background. The endpoint concentration is less than 10µg/ml. The isotype control was negative with no background. The RID test showed a concentration of 1.03 mg/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:

- 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).

FOR *IN VITRO* LABORATORY USE ONLY.

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11 August 2013