Infectious bovine rhinotracheitis (IBR)

ANTISERUM: VMRD (210-70-IBR). Goat polyclonal antibody.

REACTIVITY ACCORDING TO MANUFACTURER:
It recognizes IBR virus by IFA. It does not react with other common bovine viruses.

STAINING PROCEDURE ACCORDING TO MANUFACTURER:
IFA.

TITRATION (formalin-fixed 2-3 days, paraffin-embedded tissues):
No treatment: Dilutions: 1/100 through 1/1600. Prozone effect at 1/200. Irregular and intense reaction in some areas but also a lot of background. Possible ideal dilution: 1/400-1/800.
Proteinase K: Dilutions: 1/100 through 1/12800. Best at aprox. 1/10000.
Steamer: Dilutions: 1/200 through 1/12800. Best at 1/12,800.

WORKING DILUTION: PK or ST are very similar (more intense and crispier perhaps with steamer). PK at 1/10,000. Steamer at 1/10-12,000.

METHOD: LSAB + -PO. 30 min. RT.

CELLS/TISSUES STAINED (canine tissues unless specified):
Liver naturally infected with IBR: Numerous cells within and especially surrounding areas of necrosis. It is difficult to determine whether the reaction is only nuclear or cytoplasmic (both probably).

REFERENCES:

Infectious Bovine Rhinotracheitis virus (IBR-2)

NOTE: This antibody substitutes the previous goat polyclonal antiserum from VMRD.

ANTISERUM: VMRD (BHV-1 F2). Mouse monoclonal antibody. Clone F2. Isotype: IgG

IMMUNOGEN:

PRESENTATION: Ascites fluid, clarified by centrifugation, and filtered.

PROTEIN CONCENTRATION (mg/ml): 1.0

IMMUNOGLOBULIN CONCENTRATION (µg/ml):

REACTIVITY ACCORDING TO MANUFACTURER:
It can be used for ELISA, immunohistochemistry, neutralization, and PAGE marker.
STAINING PROCEDURE ACCORDING TO MANUFACTURER:

TITRATION (formalin-fixed 2-3 days, paraffin-embedded tissues):
- No treatment: Dilutions 1200 through 1/1600. Good staining at 1/1600 but dull at all dilutions.
- Proteinase K: Crispier than for no pretreatment. Dilute higher than 1/1600
- Steamer: Background or no staining at dilutions tested.

WORKING DILUTION: 1/6400. Pretreatment with proteinase K.

METHOD: LSAB2/PO. 30 min., RT.

SPECIES CROSS-REACTIVITY: Only bovine tested.

CELLS/TISSUES STAINED (bovine tissues unless specified):
- Adrenal gland, liver and kidney of naturally infected fetus: Strong diffuse staining in areas of necrosis. Individual positive cells (cytoplasm and/or nucleus) at the margins of necrotic areas.

REFERENCES: