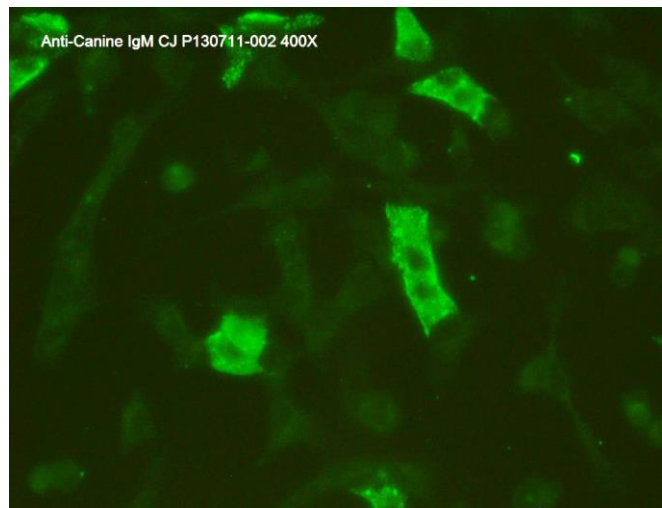


CERTIFICATE OF ANALYSIS

## Anti-Canine IgM

FITC Anti-Immunoglobulin Conjugate

Catalog No.:	CJ-F-CANM-AP-1ML
Volume:	1 ml
Lot:	P130711-002
Expiration:	20 August 2017



### Description:

Canine IgM polyclonal antiserum conjugated to fluorescein isothiocyanate (FITC). Heavy chain specific. Affinity purified. Caprine origin. Ready to use. Liquid.

### Quality Control Method:

IFA using CDV 12-well slide (catalog no. SLD-IFA-CDV), and CDV IgM positive control (catalog no. PC-IFA-CDV-M).

**Specific Reaction:** 2-4+ fluorescence with the CDV IgM positive control, no background and negative with the diluent control, no background.

**Other Comments:** The raw material has also been tested satisfactorily by VMRD's IFA systems for for *Anaplasma phagocytophila*, canine adenovirus type 1 and 2 (CAV-1 and 2), canine coronavirus (CCV), *Brucella canis*, canine distemper virus (CDV), canine herpesvirus type 1 (CHV-1), canine parainfluenza virus type 2 (CPI-2), canine parvovirus (CPV), *Ehrlichia canis*, *Borrelia burgdorferi* (Lyme disease), *Leishmania infantum*, *Neospora caninum* (canine origin), *Rickettsia rickettsii* (RMSF), and *Toxoplasma gondii*.

### Pattern Of Fluorescence:

The pattern of fluorescence will vary depending on what canine system was used.

### Intended Use:

Systems listed above.

### Storage:

This conjugate is provided in liquid form and should be stored at 2-7°C. DO NOT FREEZE! It should also be stored in the original container and/or in the dark (even after dilution). If conjugate becomes cloudy it should be discarded. This conjugate contains 0.09% sodium azide as a preservative.

### References: NA

### Recommended Staining Procedure for Indirect FA:

1. Warm slide to room temperature before removing from foil pouch.
2. Place diluted serum on the designated wells. Dilute serum in serum diluting buffer, pH 7.2 (catalog no. FASDB-100ML) however if high background due to anti-bovine IgG activity is present it may be advisable to use SSDB-100ML.
3. Incubate slide in humid chamber at 37°C for 30 minutes.
4. Using a wash bottle, gently rinse slide briefly in FA rinse buffer, pH 9.0 (catalog no. FARB-4X) and then soak for 10 minutes in FA rinse buffer, pH 9.0.
5. Drain slide and dry around wells by pressing blotter (included in pouch) to front surface. Place labeled anti-IgG or IgM on the wells.
6. Incubate as in step 3.
7. Rinse as in step 4.
8. Drain slide and dry back and edges with a paper towel. Do not allow stained surface to dry. Do not rinse with water.
9. Mount with mounting fluid [glycerol/FA rinse buffer, pH 9.0, (50/50)] (catalog no. FAMF-10ML) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be made at 400X.

Note: Microscopic precipitates may appear in this product and it is recommended that a short high speed centrifugation (approximately 10,000xg for 3 min) be performed to clarify it.

### Recommended Staining Procedure for Direct FA:

1. Warm slide to room temperature before removing from foil pouch.
2. Place direct FA conjugate on the designated wells.
3. Incubate slide in humid chamber at 37°C for 30 minutes.
4. Using a wash bottle, gently rinse slide briefly in FA rinse buffer, pH 9.0 (catalog no. FARB-4X) and then soak for 10 minutes in FA rinse buffer, pH 9.0.
5. Drain slide and dry back and edges with a paper towel. Do not allow stained surface to dry. Do not rinse with water.
6. Mount with mounting fluid [glycerol/FA rinse buffer, pH 9.0, (50/50)] (catalog no. FAMF-10ML) and view with good quality fluorescence microscope at 100X-250X. Confirmation may be at 400X.

### Serum Diluting Buffer (pH 7.2):\*

- Na<sub>2</sub>HPO<sub>4</sub>.....1.19 gm
- NaH<sub>2</sub>PO<sub>4</sub>.....0.22 gm
- NaCl.....8.55 gm
- BSA.....10.0 gm
- DI/dH<sub>2</sub>O.....Q.S. to 1 liter

\*This recipe makes 1 liter. If you need less, adjust recipe accordingly. Store at 2-7 C. Add 0.09% NaN<sub>3</sub> if diluted serum is not going to be used within one week.

### 4X FA Rinse Buffer (pH 9.0):

- Na<sub>2</sub>CO<sub>3</sub>.....11.4 gm
- NaHCO<sub>3</sub>.....33.6 gm
- NaCl.....8.5 gm
- DI/dH<sub>2</sub>O.....Q.S. to 1 liter

Final pH should be 9.0-9.5. This is a 4X concentrate and should be diluted 1/4 with DI/distilled water for use as a working buffer. Keep in a tightly stoppered container at room temperature. MOUNTING FLUID is made by mixing glycerol and FA rinse buffer, pH 9.0, in equal proportions.