Feline leukemia virus (p27)

ANTISERUM: Custom Monoclonals International. Chris Grant (ckgrantcmi@rcip.com).
Mouse monoclonal antibody. Clone: PF12J-10A. Isotype: IgG1k

SPECIFICITY ACCORDING TO MANUFACTURER:
With Western blot this protein gives strong bands at about 80kD (glycosylated FeLV gag gene product, p10+p12+p27), then several bands representing assorted partial gag gene products, then a strong band at p28.5 (p27), and perhaps one or two weak bands >27kD (p27 degradation products).

REACTIVITY ACCORDING TO MANUFACTURER: Feline leukemia virus glycoprotein 27. It has been reported to work on formalin-fixed and paraffin-embedded tissues.

WORKING DILUTION: 1/500. Pretreatment with steamer (citrate buffer, pH 6.0)

METHOD: LSAB 2-PO. 30 min. RT.

CELLS/TISSUES STAINED (feline naturally infected with FeLV from Germany):
- Bone marrow: mainly megakaryocytes with diffuse cytoplasmic staining. Probably also erythroid and myeloid cells.
- Spleen: Mononuclear cells in red pulp. Dendritic-like cells pattern in germinal centers of lymphoid follicles.
- Kidney: No reaction.
- Small intestine: Strong reaction in crypt epithelium (diffuse) and some mononuclear cells deep in bottom of the lamina propria.

REFERENCES:

Feline leukemia virus (p15e)

ANTISERUM: Custom Monoclonals International. Chris Grant (ckgrantcmi@rcip.com).
Mouse monoclonal antibody. Clone: PF6J-2A1. Isotype: IgG2ak

SPECIFICITY ACCORDING TO MANUFACTURER:
FeLV transmembrane, mapping towards the amino-terminal domain. This antibody gives two bands on Western blot at 20 and 15 kD. The former is the entire FeLV p15e, including the intracellular sequence, and the latter is the truncated p15e sheared from the cell membrane surface.

REACTIVITY ACCORDING TO MANUFACTURER:
Feline leukemia virus transmembrane protein p15e. It has been reported to work on formalin-fixed and paraffin-embedded tissues.

**WORKING DILUTION:** 1/200. Pretreatment with proteinase K.

**METHOD:** LSAB 2-PO. 30 min. RT.

**CELLS/TISSUES STAINED** (feline naturally infected with FeLV from Germany):
- Bone marrow: No reaction.
- Spleen: Dendritic-like cells pattern in germinal centers of lymphoid follicles.
- Kidney: No reaction.
- Small intestine: No reaction.

**REFERENCES:**

**Feline leukemia virus (gp70)**

**ANTISERUM:** Custom Monoclonals International. Chris Grant (ckgrantcmi@rcip.com).

**SPECIFICITY ACCORDING TO MANUFACTURER:**
- It recognizes amino-acids 214 to 218 in gp70 sequence. This antibody may weakly crossreact with amino-acid sequence located in intracellular portion of FeLV p15e transmembrane protein to give the 20 kD band in Western blots. With this technique this antibody gives bands at 85, 70, 45 (weak) and 20 kD.

**REACTIVITY ACCORDING TO MANUFACTURER:**
- Feline leukemia virus glycoprotein 70. It has been reported to work on formalin-fixed and paraffin-embedded tissues.

**WORKING DILUTION:** Steamer at 1/500.

**METHOD:** LSAB 2-PO. 30 min. RT.

**CELLS/TISSUES STAINED** (feline naturally infected with FeLV):
- Bone marrow: mainly megakaryocytes with diffuse cytoplasmic staining. Probably also erythroid and myeloid cells.
- Small intestine: Interstitial cells in lamina propria and rare cells in villar epithelium.
REFERENCES:


