



Monoclonal Anti-canine KGF/FGF-7 Antibody

ORDERING INFORMATION

Catalog Number: MAB1957

Clone: 299026

Lot Number: XBS01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: canine KGF

Immunogen: *E. coli*-derived rcaKGF

Ig class: mouse IgG₁

Recommended Application:
Immunohistochemistry

Other Application:
Direct ELISA

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant canine keratinocyte growth factor (rcaKGF; aa 32 - 194; Accession # AAB38972). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. KGF, also known as FGF-7, is one of 23 known members of the fibroblast growth factor (FGF) family of secreted proteins that play key roles in development, morphogenesis, angiogenesis, wound healing and tumorigenesis. KGF is secreted by cells of mesenchymal origin and its function on epithelial cells is modulated by heparin and heparan sulfate proteoglycans. All FGFs contain a β-trefoil scaffold which includes the active site and a heparin binding site. Mature canine KGF shares 97% aa sequence identity with human and mouse KGF. KGF, like FGF-1, signals through the tyrosine kinase receptor, KGF R [FGF R2 (IIIb)].

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody detects canine KGF in direct ELISAs and immunohistochemistry. In direct ELISAs this antibody shows no cross-reactivity with rhFGF11, -12, -13, -16, -20, -21, -22, -23, or rhFGFbasic.

Applications

Immunohistochemistry - This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect KGF in paraformaldehyde fixed canine PBMC. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect canine KGF. The detection limit for rcaKGF is approximately 5 ng/well.

For immunohistochemistry images, please refer to our website at <http://www.rndsystems.com/go/ihc>.

Optimal dilutions should be determined by each laboratory for each application.