



## ***Biotinylated Anti-mouse Kremen-1 Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF1647

**Lot Number:** KKL01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** mouse Kremen-1 extracellular domain

**Immunogen:** NS0-derived rmKremen-1 extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunohistochemistry  
ELISA detection

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant mouse Kremen-1 (rmKremen-1) extracellular domain. Kremen-1 specific IgG was purified by mouse Kremen-1 affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 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 has been selected for use as a detection antibody in the applications listed below.

### ***Applications***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse and human Kremen-1. The detection limit for rmKremen-1 and rhKremen-1 is approximately 5 ng/lane under non-reducing and reducing conditions.

**Immunohistochemistry** - This antibody will detect Kremen-1 in cells and tissues. The working dilution is 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

**ELISA Detection** - This biotinylated antibody can be used as a detection reagent in a mouse Kremen-1 sandwich immunoassay in combination with mouse Kremen-1 capture reagent (Cat. # MAB16471) and recombinant mouse Kremen-1 (Cat. # 1647-KR) as the standard. The suggested concentration range for this detection reagent is 0.1 - 0.4 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at [www.rndsystems.com/MAPELISA](http://www.rndsystems.com/MAPELISA). In this format, this antibody shows approximately 25% cross-reactivity with rhKremen-1 and less than 1% cross-reactivity with rhKremen-2 and rmKremen-2.

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