



## ***Biotinylated Anti-mouse Mimecan Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF2949

**Lot Number:** WIR01

**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 Mimecan

**Immunogen:** NS0-derived rmMimecan

**Ig Type:** goat IgG

**Applications:** Western blot  
ELISA detection

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant mouse Mimecan (rmMimecan; aa 20 - 298; Accession # Q62000). Mouse Mimecan specific IgG was purified by mouse Mimecan affinity chromatography and then biotinylated. Mimecan, also known as KSPG25 (25 kDa Keratan Sulfate Proteoglycan) and Osteoglycin, is an extracellular matrix protein belonging to the class III subfamily of the small leucine rich proteoglycan (SLRP) family. SLRPs are characterized by leucine-rich repeats in the central domain, which is flanked by N- and C-terminal cysteine-rich domains. The core proteins contain N-linked oligosaccharides as well as glycosaminoglycan side chains. Mimecan is synthesized as a preproprotein that is processed to generate proteins of different sizes including Osteoglycin (containing 93 most C-terminal amino acid residues) and Mimecan (containing 223 most C-terminal residues). Mouse Mimecan shares approximately 94% and 85% amino acid sequence identity with rat and human Mimecan, respectively.

### ***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 mouse Mimecan Western blots and ELISAs.

### ***Applications***

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse Mimecan. The detection limit for rmMimecan is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 10% cross-reactivity with rhMimecan.

**ELISA detection** - This biotinylated antibody can be used as a detection reagent in a mouse Mimecan sandwich immunoassay in combination with the mouse Mimecan capture reagent (Cat. # MAB2949) and recombinant mouse Mimecan (Cat. # 2949-MC) 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, less than 3% cross-reactivity is observed with rhMimecan.

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

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