



## *Anti-mouse DPPII/QPP/DPP7 Antibody*

### ORDERING INFORMATION

**Catalog Number:** AF3436

**Lot Number:** YPD01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse DPPII

**Immunogen:** NS0-derived rmDPPII (aa 34 - 506)

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunoprecipitation  
Neutralization  
Direct ELISA

### *Preparation*

Produced in goats immunized with purified, NS0-derived, recombinant mouse Dipeptidyl-Peptidase II (rmDPPII; aa 34 - 506; R&D Systems' Catalog # 3436-SE). Mouse DPPII specific IgG was purified by mouse DPPII affinity chromatography.

### *Formulation*

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

### *Reconstitution*

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/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 its ability to recognize mouse DPPII 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 DPPII. The detection limit for rmDPPII is approximately 1 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 10% cross-reactivity with rhDPPII.

**Neutralization** - This antibody has been used to inhibit/neutralize the enzymatic activity of rmDPPII. The antibody was pre-incubated with the enzyme at different molar ratios at room temperature for 30 minutes. The enzyme was then assayed with a fluorogenic peptide substrate, KP-AMC. 50% of the proteolytic activity was inhibited by the antibody at approximately 0.45 µg/mL (IC<sub>50</sub>) under conditions in which the enzyme was present at 0.02 µg/mL and the substrate concentration was 10 µM. Considering the molecular masses of the enzyme (54 kDa) and the antibody (150 kDa), IC<sub>50</sub> was achieved at an approximately 8:1 molar ratio of the antibody to the enzyme.

**Immunoprecipitation** - This antibody has been used to immunoprecipitate rmDPPII from conditioned media of transfected NS0 cells.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse DPPII. The detection limit for rmDPPII is approximately 0.2 ng/well.

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

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

**R&D Systems, Inc.**  
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