

## ORDERING INFORMATION

**Catalog Number:** AF3685

**Lot Number:** XZN01

**Size:** 100 µg

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

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse APLP-2 extracellular domain

**Immunogen:** NS0-derived rmAPLP-2 extracellular domain

**Ig Type:** goat IgG

**Applications:** Western blot  
Direct ELISA

## *Preparation*

Produced in goats immunized with purified, NS0-derived, recombinant mouse Amyloid beta Precursor-like Protein 2 (rmAPLP-2; aa 37 - 624; Accession # AAH52396) extracellular domain. Mouse APLP-2 specific IgG was purified by mouse APLP-2 affinity chromatography. Mouse APLP-2 is a 120-170 kDa (695 aa) member of the APP family of type I transmembrane (TM) proteins. Its 595 aa extracellular region has multiple domains, including an N-terminal Cys-rich domain, an Asp/Glu-rich acidic region, and a membrane proximal linker region that contains a GAG attachment site. Several alternatively spliced APLP-2 isoforms have been reported. APLP-2 is proteolytically cleaved by MMPs and secretases and forms both homodimers and heterodimers with APP and APLP-1. Over the range used as immunogen, mouse APLP-2 shares 97% and 91% aa sequence identity with rat and human ALPL-2, respectively.

## *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 APLP-2 in direct ELISAs and western blots.

## *Applications*

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse APLP-2. The detection limit for rmAPLP-2 is approximately 2 ng/lane under non-reducing and reducing conditions.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse APLP-2. The detection limit for rmAPLP-2 is approximately 0.2 ng/well. In this format, this antibody shows approximately 50% cross-reactivity with rhAPLP-2 and less than 1% cross-reactivity with rhAPLP-1 and rmAPLP-1.

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