



Anti-human/mouse/rat Lipin 2 Antibody

ORDERING INFORMATION

Catalog Number: AF3756

Lot Number: YEZ01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: Lipin 2

Immunogen: *E. coli*-derived rhLipin-2 (aa 439 - 563)

Ig Type: goat IgG

Applications: Western blot
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Lipin 2 (rhLipin 2; aa 439 - 563; Accession # Q92539). Lipin 2 specific IgG was purified by human Lipin 2 affinity chromatography. Human Lipin 2 is a 100 kDa (896 aa) nuclear protein that belongs to the large, evolutionarily conserved Lipin family. All Lipin family members have a conserved N-lipin domain at the N-termini, a nuclear localization signal, and a conserved C-lipin domain near the C-termini. The functions of the N- and C-lipin domain are not known. Lipin 2 is widely expressed. Mutations in human Lipin 2 have been associated with autosomal dominant high grade myopia and Majeed syndrome. Over the region used as immunogen, human and mouse Lipin 2 are 100% identical. Lipin 2 also shares approximately 48% - 50% amino acid sequence identity with Lipin 1 and Lipin 3.

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 Lipin 2 in direct ELISAs and western blots. In these formats, this antibody shows less than 1% cross-reactivity with rhLipin 1 and rhLipin 3.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect Lipin 2. The detection limit for rhLipin 2 is approximately 1 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 Lipin 2. The detection limit for rhLipin 2 is approximately 1.5 ng/well.

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