

# Monoclonal Antibody to Mouse TUG

Cat. #: Mab-606011

## Description:

The TUG protein contains a UBX domain, for GLUT4. In truncated form, TUG acts in a dominant-negative manner to inhibit insulin-stimulated GLUT4 redistribution in Chinese hamster ovary cells and 3T3-L1 adipocytes. Full-length TUG forms a complex specifically with GLUT4. In 3T3-L1 adipocytes, this complex is present in unstimulated cells and is largely disassembled by insulin. Endogenous TUG is localized with the insulin-mobilizable pool of GLUT4 in unstimulated 3T3-L1 adipocytes, and is not mobilized to the plasma membrane by insulin.

## Immunogen/Specificity:

Ni-NTA purified truncated recombinant TUG expressed in E. Coli strain BL21 (DE3)

## Applications :

Western Blot: 1: 500- 1: 2,000

ELISA: Propose dilution 1: 10,000.

Determining optimal working dilutions by titration test.

## Formulation

Antibodies are purified by protein A affinity chromatography and resuspended in PBS with 0.2%BSA, 0.09% sodium azide.

## Reference:

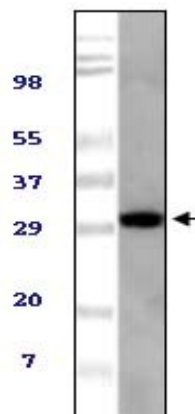
1. Jonathan S.B, Natalie H, Adrienne E. Lodish  
Functional cloning of TUG as a regulator of GLUT4 glucose transporter trafficking. Nature 2003,425:727 - 733.

Clone Number: 4A11A6G11

Isotype: IgG1

Species: mouse

Storage and Stability: stored at -20 C



**Figure 1:** Western blot analysis using anti-mouse TUG monoclonal antibody against NIH/3T3 cell lysate.