10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse TUG Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1041a

Product Information

Application	WB, E
Primary Accession	Q9BZE9
Reactivity	Mouse
Host	Mouse
Clonality	Monoclonal
Clone Names	4A11A6G11
Isotype	IgG1
Calculated MW	60183
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	Purified recombinant fragment of TUG expressed in E. Coli.
Formulation	Purified antibody in PBS containing 0.03% sodium azide.

Additional Information

Gene ID	79058
Other Names	Tether containing UBX domain for GLUT4, Alveolar soft part sarcoma chromosomal region candidate gene 1 protein, Alveolar soft part sarcoma locus, Renal papillary cell carcinoma protein 17, UBX domain-containing protein 9, ASPSCR1, ASPL, RCC17, TUG, UBXD9, UBXN9
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse TUG Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ASPSCR1
Synonyms	ASPL, RCC17, TUG, UBXD9, UBXN9
Function	Tethering protein that sequesters GLUT4-containing vesicles in the cytoplasm in the absence of insulin. Modulates the amount of GLUT4 that is available at the cell surface (By similarity). Enhances VCP methylation catalyzed by VCPKMT.
Cellular Location	Endomembrane system; Peripheral membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane; Peripheral membrane protein. Cytoplasm Nucleus
Tissue Location	Ubiquitous. Highly expressed in testis, heart, skeletal muscle and pancreas.

References

1. Nature 2003,425:727 - 733.

Images

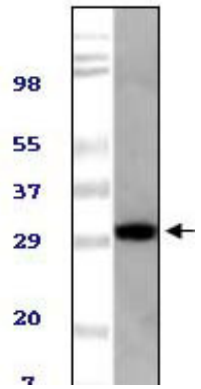

Figure 1: Western blot analysis using TUG mouse mAb against NIH/3T3 cell lysate.