

#2049
Store at -20°C

Tug Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB, IP | H M R Mk | Endogenous | 70-75 | Rabbit | #Q9BZE9 | 79058 |

| Product Usage Information | Application | Dilution |
|---------------------------|---|----------|
| | Western Blotting | 1:1000 |
| | Immunoprecipitation | 1:50 |
| Storage | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody. | |
| Specificity / Sensitivity | Tug Antibody detects endogenous levels of total Tug protein. | |
| Source / Purification | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids around residue Val542 of human Tug. Antibodies are purified by Protein A and peptide affinity chromatography. | |
| Background | Tug (Tether containing UBX domain for GLUT4), also known as ASPL, ASPSCR1, RCC17, UBXD9, UBXN9, was first identified as a chromosomal translocation partner for TFE3 in patients with Alveolar soft part sarcoma (1) and contains an UBX-like domain in its C-terminal region. Tug is found to tether GLUT4 in intracellular vesicles and to release GLUT4 for cell surface translocation upon insulin stimulation (2). Stable Tug depletion or expression of a dominant negative form stimulates GLUT4 redistribution (3). | |
| Background References | <ol style="list-style-type: none"> Ladanyi, M. et al. (2001) <i>Oncogene</i> 20, 48-57. Bogan, J.S. et al. (2003) <i>Nature</i> 425, 727-33. Yu, C. et al. (2007) <i>J Biol Chem</i> 282, 7710-22. | |

| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
|------------------------|--|
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | WB: Western Blotting IP: Immunoprecipitation |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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