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# Tug Antibody

Store at -20C  
#2049

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

| Applications:                    | Reactivity:   | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID:     | Entrez-Gene Id: |
|----------------------------------|---|--------------|-----------|-----------------|-----------------|-----------------|
| W, IP                            | H M R Mk  | Endogenous   | 70-75     | Rabbit          | #Q9BZE9         | 79058           |
| <b>Product Usage Information</b> | <b>Application</b>  |              |           |                 | <b>Dilution</b> |                 |
|                                  | Western Blotting  |              |           |                 | 1:1000          |                 |
|                                  | Immunoprecipitation   |              |           |                 | 1:50            |                 |
| <b>Storage</b>                   | 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.  |              |           |                 |                 |                 |
| <b>Specificity/Sensitivity</b>   | Tug Antibody detects endogenous levels of total Tug protein.  |              |           |                 |                 |                 |
| <b>Source / Purification</b>     | 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.  |              |           |                 |                 |                 |
| <b>Background</b>                | 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). |              |           |                 |                 |                 |
| <b>Background References</b>     | <ol style="list-style-type: none"> <li>Ladanyi, M. et al. (2001) <i>Oncogene</i> 20, 48-57.</li> <li>Bogan, J.S. et al. (2003) <i>Nature</i> 425, 727-33.</li> <li>Yu, C. et al. (2007) <i>J Biol Chem</i> 282, 7710-22.</li> </ol>   |              |           |                 |                 |                 |

|                               |   |
|-------------------------------|---|
| <b>Species Reactivity</b>     | Species reactivity is determined by testing in at least one approved application (e.g., western blot).  |
| <b>Western Blot Buffer</b>    | <b>IMPORTANT:</b> 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.   |
| <b>Applications Key</b>       | <b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation   |
| <b>Cross-Reactivity Key</b>   | <b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey   |
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