## Store at -200

## Synip (C51G6) Rabbit mAb



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Applications: I	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q6ZWJ1	Entrez-Gene Id: 252983	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	<b>rity</b> Syn	Synip (C51G6) Rabbit mAb detects endogenous levels of total Synip protein.					
Source / Purification		Synip (C51G6) Rabbit mAb is produced by immunizing rabbits with a synthetic peptide corresponding to the sequence of human Synip.					
Background	tran Initia are mer diss tran Glut	Insulin binds to and activates its receptor and initiates a signaling cascade that eventually induces the translocation of the Glut4 glucose transporter from its intracellular locations to the plasma membrane. Initiating this pathway facilitates glucose uptake in fat and skeletal muscle cells (1). Synip and Syntaxin 4 are two proteins thought to be involved in the recruitment of Glut4-containing vesicles to plasma membrane (2,3). Synip associates with Syntaxin 4 when insulin is absent. Insulin signaling triggers the dissociation of the two proteins and allows Syntaxin 4 to complex with VAMP2, which is essential for Glut4 translocation to plasma membrane (2-4). Overexpression of a dominant-negative form of Synip prevents Glut4 from translocating to plasma membrane in response to insulin stimulation (3). Synip together with Syntaxin 4, therefore, regulates Glut 4 transport to plasma membrane.					
Background Referer	2. M 3. Y	<ol> <li>Watson, R.T. and Pessin, J.E. (2006) <i>Trends Biochem. Sci.</i> 31, 215-222.</li> <li>Min, J. et al. (1999) <i>Mol. Cell</i> 3, 751-760.</li> <li>Yamada, E. et al. (2005) <i>J. Cell Biol.</i> 168, 921-928.</li> <li>Foster, L.J. and Klip, A. (2000) <i>Am. J. Physiol. Cell Physiol.</i> 279, C877-C890.</li> </ol>					

4. Foster, L.J. and Klip, A. (2000) Am. J. Physiol. Cell Physiol. 279, C877-C890.

**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

**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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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