Phospho-AS160 (Thr642) (D27E6) Rabbit mAb				2 Track I	Orders: Support: Web:	BI Signaling CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com	
For Research Use Only	V Not for Use in	Diagnostic Proce	edures	5 Hask L		55aciiusells   01923   03A	
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 160	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O60343	Entrez-Gene Id: 9882	
Product Usage	Ар	plication			Dilution		
Information	We	estern Blotting			1:1000		
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		cerol and less than	
Specificity / Sensitivity		Phospho-AS160 (Thr642) (D27E6) Rabbit mAb recognizes endogenous levels of AS160 protein only when phosphorylated at Thr642.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr642 of human AS160 protein.					
Background	Insu ada mus the GTI tiss bee incr that in s pho	ulin binds to and acti ptor proteins. The si scle cells and adipoo plasma membrane ( Pase-activating prote ues including brain, in identified on AS16 eased phosphorylati insulin-stimulated p ome patients with ty sphorylated at Thr64	vates the insulin gnaling pathway cytes through tran (1). A 160 kDa su ein that regulates kidney, liver, and to <i>in vivo</i> , with five ion following insu hosphorylation of pe 2 diabetes (4) 42 is a necessary	tical energy functions, s receptor (IR) tyrosine kii initiated by insulin and i islocation of the Glut4 g bstrate of the Akt Ser/Th insulin-stimulated Glut4 brown and white fat (2). e sites (Ser318, Ser570 lin treatment (2,3). Stud f AS160 is a crucial step . The interaction of 14-3 step for Glut4 transloca traction-stimulated Glut	nase, which phosph ts receptor stimulate lucose transporter fr nr kinase (AS160, Tl trafficking. AS160 i Multiple Akt phosph , Ser588, Thr642, au ies using recombina o in Glut4 translocati t-3 regulatory proteir ation (5). Phosphory	orylates and recruits es glucose uptake in rom the cytoplasm to BC1D4) is a Rab s expressed in many norylation sites have nd Thr751) showing ant AS160 demonstrate on (3) and is reduced ns with AS160	
Background Refe	rences 1.V	Vatson, R.T. and Pes	ssin. J.E. (2006) 7	Trends Biochem. Sci. 31	. 215-22.		

<ol> <li>Watson, R.T. and Pessin, J.E. (2006) <i>Trends Biochem. Sci.</i> 31, 215-22.</li> <li>Kane, S. et al. (2002) <i>J. Biol. Chem.</i> 277, 22115-8.</li> <li>Sano, H. et al. (2003) <i>J. Biol. Chem.</i> 278, 14599-602.</li> <li>Karlsson, H.K. et al. (2005) <i>Diabetes</i> 54, 1692-7.</li> <li>Ramm, G. et al. (2006) <i>J. Biol. Chem.</i> 281, 29174-80.</li> <li>Kramer, H.F. et al. (2006) <i>J. Biol. Chem.</i> 281, 31478-85.</li> </ol>
6. Kramer, H.F. et al. (2006) <i>J. Biol. Chem.</i> 281, 31478-85.

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot). IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. **Applications Key** WB: Western Blotting H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 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 Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Trademarks and All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more Patents information. Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the Limited Uses following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

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writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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