Revision 1			
PathScan <sup>®</sup> Phospho-IRS-1 (Ser307) Sandwich ELISA Antibody Pair		Сеll Signalin тесниогод Orders: 877-616-CELL (2	
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UniProt ID: Entrez-Gene Id: #P35568 #3667		Web: info@cellsignal.	
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Description	CST's PathScan <sup>®</sup> Phospho-IRS-1 (Ser307) Sandwick economical alternative to our PathScan <sup>®</sup> Phospho and detection antibodies (100X stocks) and an HR supplied. Sufficient reagents are supplied for 4 x 9 coated in PBS overnight in a 96 well microplate. A Phospho-IRS-1 (Ser307) Rabbit Detection Antibody HRP substrate (TMB) is added for color developed developed color is proportional to the quantity of *Antibodies in this kit are custom formulations sp	h ELISA Antibody Pair is being offered as an -IRS-1 (Ser307) Sandwich ELISA Kit #7287. Capture P-conjugated secondary antibody (1000X stock) an 96 well ELISAs. The IRS-1 Mouse Capture Antibody fter blocking, cell lysate is added followed by a y and an HRP-conjugated, Anti-Rabbit IgG Antibody ent. The magnitude of the absorbance for this IRS-1 phosphorylated at Ser307. vecific to the kit.	
Reagents Not Supplied	Phosphate Buffered Saline (PBS-20X) #9808 Phosphate Buffered Saline with Tween-20 (PBST-20X) #9809 Cell Lysis Buffer (10X) #9803 TMB Substrate #7004 STOP Solution #7002 Blocking Buffer: 1X PBS/0.05% Tween-20, 1% BSA 96 Well Microplates** Microplate Reader ** Antibody Pairs have been validated on Corning <sup>®</sup> 96 Well Clear Polystyrene High Bind Stripwell <sup>™</sup> Microplates (#2592) and Corning <sup>®</sup> 96 Well EIA/RIA Easy Wash™ Clear Flat Bottom Polystyrene High Bind Microplates (#3369).		
Background	Insulin receptor substrate 1 (IRS-1) is one of the m 1 contains multiple tyrosine phosphorylation mot containing proteins that mediate the metabolic ar also contains over 30 potential serine/threonine p phosphorylated by JNK (5) and IKK (6) while Ser78 family (7). The PKC and mTOR pathways mediate p respectively (8,9). Phosphorylation of IRS-1 at Ser <sup>4</sup> of insulin signaling in the cell, suggesting a poten of obesity (10).	najor substrates of the insulin receptor kinase (1). I ifs that serve as docking sites for SH2-domain ad growth-promoting functions of insulin (2-4). IRS shosphorylation sites. Ser307 of IRS-1 is 9 is phosphorylated by SIK-2, a member of the AM ohosphorylation of IRS-1 at Ser612 and Ser636/632 1101 is mediated by PKC0 and results in an inhibition tial mechanism for insulin resistance in some mod	
Background References	<ol> <li>Sun, X.J. et al. (1991) Nature 352, 73-77.</li> <li>Sun, X.J. et al. (1992) J. Biol. Chem. 267, 22662-2</li> <li>Myers Jr., M.G. et al. (1993) Endocrinology 132, 1</li> <li>Wang, L.M. et al. (1993) Science 261, 1591-1594</li> <li>Rui, L. et al. (1997) J. Clin. Invest. 107, 181-189.</li> <li>Gao, Z. et al. (2002) J. Biol. Chem. 277, 48115-48</li> <li>Horike, N. et al. (2003) J. Biol. Chem. 278, 18440</li> <li>Ozes, O.N. et al. (2001) Proc. Natl. Acad. Sci. USJ</li> <li>De Fea, K. and Ruth, R.A. (1997) Biochemistry 36</li> <li>Li, Y. et al. (2004) J. Biol. Chem. 279, 45304-453</li> </ol>	2672. 1421-1430. 121. 18447. 4 98, 4640-4645. 5, 12939-12947. 07.	
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