IRS1 (Phospho-Ser636) Antibody

#11230

Catalog Number: 11230-1, 11230-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :P35568

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human IRS-1 around the phosphorylation site of serine 636 (P-M-S$_P$-P-K).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatogramphy using non-phosphopeptide corresponding to the phosphorylation site.

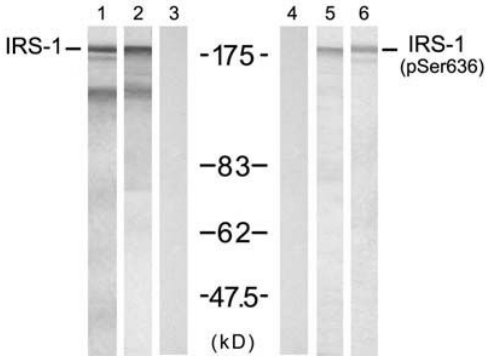
Specificity/Sensitivity: IRS-1 (phospho-Ser636) antibody detects endogenous levels of IRS-1 only when phosphorylated at serine 636.

Reactivity: Human,Mouse,Rat

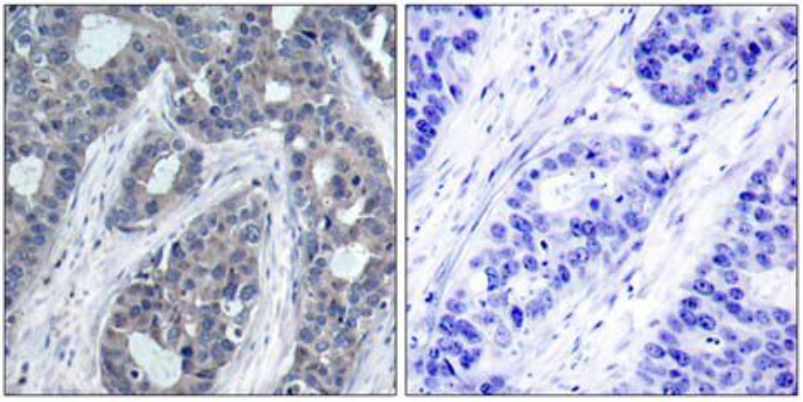
Applications:

Predicted MW: 180 kd

WB: 1:500~1:1000 IHC: 1:50~1:100



Western blot analysis of extracts from 293 cells treated with insulin(100nM, 30min) or PMA (0.2μM, 15min) using IRS-1 (Ab-636) antibody (#21223, Lane 1, 2 and 3) and IRS-1 (phospho-Ser636) antibody (#11230, Lane 4, 5 and 6)



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using IRS-1 (phospho-Ser636) antibody (#11230).

Background :

May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit

References：

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Tzatsos A, et al. (2006) Mol Cell Biol; 26(1): 63-76
Kadowaki T, et al. (2000) J Clin Invest; 106(4): 459-465
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Szanto I, et al. (2000) Proc Natl Acad Sci U S A; 97(5): 2355-2360