



IRS1 (Ab-636) Antibody

#21223

Catalog Number: 21223-1, 21223-2

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°C/1 year

Immunogen: The antiserum was produced against synthesized non-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 immunogen.

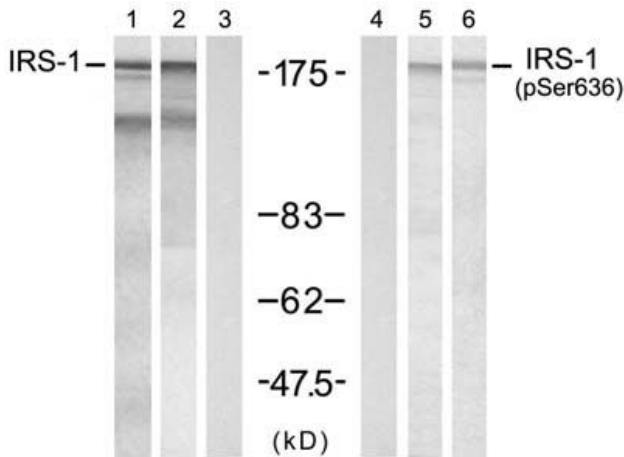
Specificity/Sensitivity: IRS-1 (Ab-636) antibody detects endogenous levels of total IRS-1 protein.

Reactivity: Human, Mouse, Rat

Applications:

Predicted MW: 180 kd

WB: 1:500~1:1000 IHC: 1:50~1:100 IF: 1:100~1:200

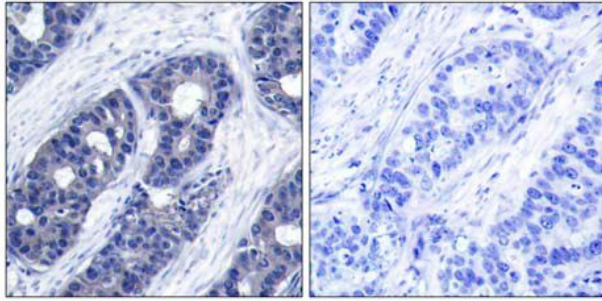


Insulin + - - - - +

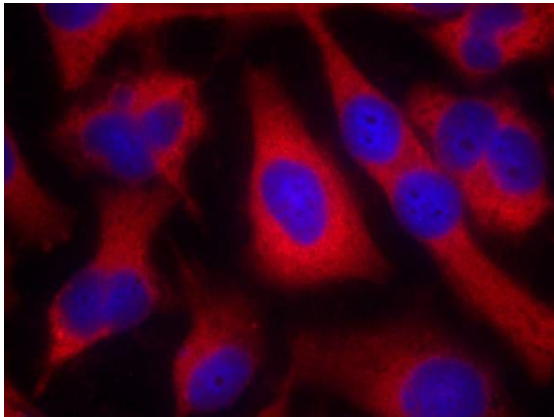
PMA - + + - - +

Peptide - - + - - -

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 (Ab-636) antibody (#21223).



Immunofluorescence staining of methanol-fixed HeLa cells using IRS-1 (Ab-636) antibody (#21223,Red)

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:

- Ozes ON, et al. (2001) Proc Natl Acad Sci U S A; 98(8): 4640-4645
- 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