IRS1(Ab-639) Antibody

#21224

Catalog Number: 21224-1, 21224-2

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 non-phosphopeptide derived from human IRS-1 around the phosphorylation site of serine 639 (P-K-S$_P$-V-S).

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

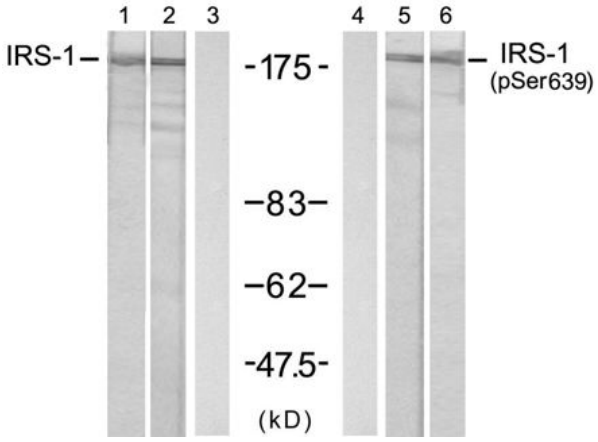
Specificity/Sensitivity: IRS-1 (Ab-639) antibody detects endogenous levels of total IRS-1 protein.

Reactivity: Human,Mouse,Rat

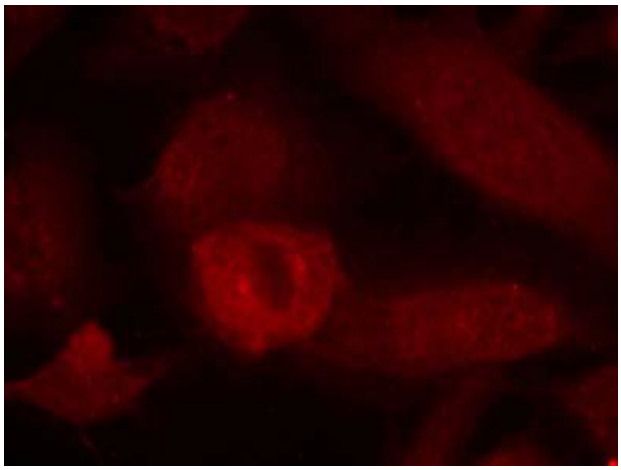
Applications:

Predicted MW: 180 kd

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



Western blot analysis of extracts from 293 cells treated with PMA (0.2μM, 15min) or insulin(100nM, 30min) using IRS-1 (Ab-639) antibody (#21224, Lane 1, 2 and 3) and IRS-1 (phospho-Ser639) antibody (#11231, Lane 4, 5 and 6).



Immunofluorescence staining of methanol-fixed HeLa cells

using IRS-1 (Ab-639) antibody (#21224,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：

Tzatsos A, et al. (2006) Mol Cell Biol; 26(1): 63-76
Kadowaki T, et al. (2000) J Clin Invest; 106(4): 459-465
Ozes ON, et al. (2001) Proc Natl Acad Sci U S A; 98(8): 4640-4645
Szanto I, et al. (2000) Proc Natl Acad Sci U S A; 97(5): 2355-2360