

IRS1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues D(631) Y M P M S P K S V S A P Q Q I(646) of human IRS-1.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325017

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	2 µg/mL	1 Publication
Immunocytochemistry (ICC)	✓	1:250	
Immunofluorescence (IF)	✓	1:250	

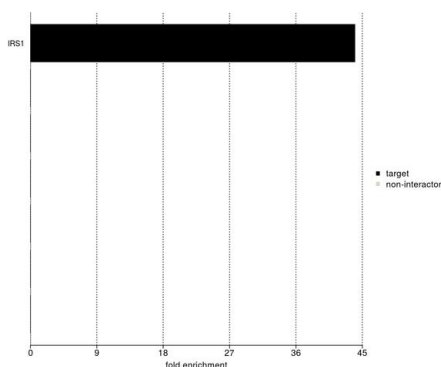
Product Specific Information

PA1-1059 detects IRS-1 in mouse and human cells.

PA1-1059 has been successfully used in Western blot procedures. By Western blot, this antibody detects a ~170 kDa protein representing IRS-1 from 3T3 L1 cell extract.

The PA1-1059 immunogen is a synthetic peptide corresponding to residues D(631) Y M P M S P K S V S A P Q Q I(646) of human IRS-1. The peptide sequence is 100% conservation in rats, and mice. This peptide (Cat. # PEP-193) is available for use in neutralization and control experiments.

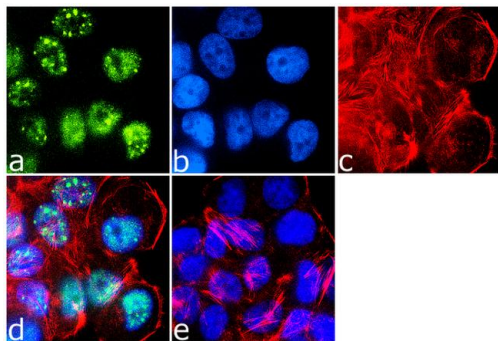
Advanced Verification Data



IRS1 Antibody (PA1-1059)

IP-MS enrichment of IRS1 (LFQ intensity): IRS1 was enriched 44-fold from HCT116 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and IRS1 antibody (Product # PA1-1059). See more information on IP-MS verification of antibody selectivity. IP-MS validation info.

Product Images For IRS1 Polyclonal Antibody



IRS1 Antibody (PA1-1059) in IF

Immunofluorescence analysis of IRS1 was done on 70% confluent log phase T-47D cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with IRS1 Rabbit Polyclonal Antibody (Product # PA1-1059) at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing Nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.

1 Reference

Western Blot (1)

The Journal of biological chemistry

The hyperglycemia-induced inflammatory response in adipocytes: the role of reactive oxygen species.

"PA1-1059 was used in western blot to study the important role for ROS production in adipocytes and the associated insulin resistance and inflammatory response"

Authors: Lin Y, Berg AH, Iyengar P, Lam TK, Giacca A, Combs TP, Rajala MW, Du X, Rollman B, Li W, Hawkins M, Barzilai N, Rhodes CJ, Fantus IG, Brownlee M, Scherer PE

Species
Mouse

Dilution
Not Cited

Year
2005

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