

Phospho-IRS1 (Tyr612) Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Human
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human IRS-1 that contains tyrosine 612. The sequence is conserved in mouse, rat and chicken.
Form	Liquid
Purification	Antigen affinity chromatography
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2533768

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	46 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Immunoprecipitation (IP)	-	2 Publications
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	3 Publications

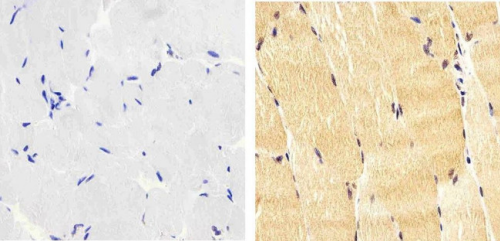
Product Specific Information

On western blotting this antibody detects a protein with the apparent MW of 165 kDa. Positive controls used were Insulin (50 nM for 5 minutes) or TPA (100 ng/mL for 30 min) treated human embryonic kidney cells (293T) or Chinese Hamster Ovary cells (CHO-T) transiently transfected with a plasmid encoding human IRS1.

Product Images For Phospho-IRS1 (Tyr612) Polyclonal Antibody

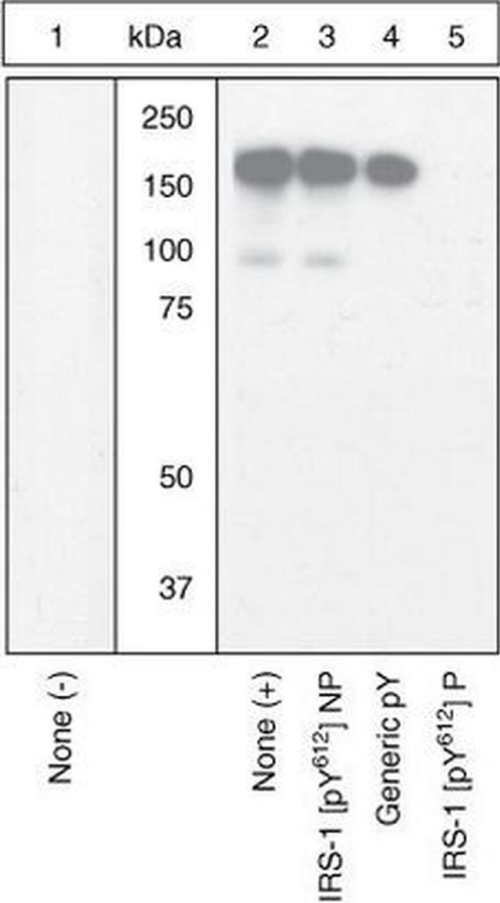
Phospho-IRS1 (Tyr612) Antibody (44-816G) in IHC (P)

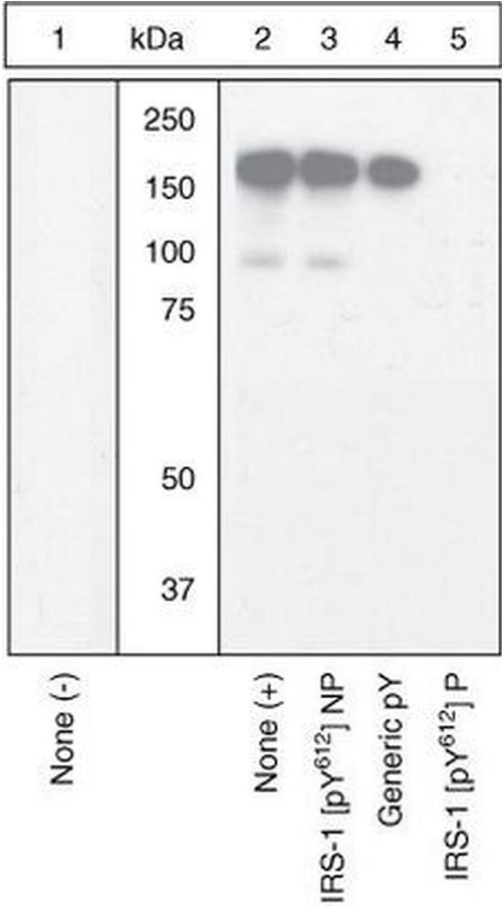
Immunohistochemistry analysis of Phospho-IRS1 (pY612) showing staining in the cytoplasm and nucleus of paraffin-embedded human skeletal muscle tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Phospho-IRS1 (pY612) polyclonal antibody (Product # 44-816G) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Phospho-IRS1 (Tyr612) Antibody (44-816G)

Altered expression of protein upon cell treatment demonstrates antibody specificity. Western blot of IRS1 (pY612) using Anti -IRS1 (pY612) Rabbit Polyclonal Antibody (Product # 44-816G) shows increased expression of IRS1 [pY896] in XXX cells XXX TREATMENT. {TM}





Phospho-IRS1 (Tyr612) Antibody (44-816G) in WB
Western blot analysis of Phospho-IRS1 (Tyr612) using a polyclonal antibody (Product # 44-816G).

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Western Blot (46)

<p>The Journal of biological chemistry</p> <p>The CX3CL1 intracellular domain exhibits neuroprotection via insulin receptor/insulin-like growth factor receptor signaling.</p> <p>"44-816G was used in Western Blotting to suggest that CX3CL1-ICD may have translational potential for neuroprotection in Alzheimer's disease and for disorders resulting from insulin resistance."</p> <p>Authors: Gayen M,Benoit MR,Fan Q,Hudobenko J,Yan R</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Proceedings of the National Academy of Sciences of the United States of America</p> <p>Cullin neddylation inhibitor attenuates hyperglycemia by enhancing hepatic insulin signaling through insulin receptor substrate stabilization.</p> <p>"44-816G was used in Immuno-assay to suggest that pharmacological inhibition of cullin neddylation represents a therapeutic approach for improving hepatic insulin signaling and lowering blood glucose."</p> <p>Authors: Chen C,Gu L,Matye DJ,Clayton YD,Hasan MN,Wang Y,Friedman JE,Li T</p>	<p>Year 2022</p> <p>Species Mouse</p>

[View more WB references on thermofisher.com](#)

Immunohistochemistry (2)

<p>Clinical cancer research : an official journal of the American Association for Cancer Research</p> <p>A Phase 0 Trial of Ceritinib in Patients with Brain Metastases and Recurrent Glioblastoma.</p> <p>"Published figure using Phospho-IRS1 (Tyr612) polyclonal antibody (Product # 44-816G) in Immunohistochemistry (PFA fixed)"</p> <p>Authors: Mehta S,Fiorelli R,Bao X,Pennington-Krygier C,Derogatis A,Kim S,Yoo W,Li J,Sanai N</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:100</p>
<p>Molecular and cellular biology</p> <p>Molecular and Structural Traits of Insulin Receptor Substrate 1/LC3 Nuclear Structures and Their Role in Autophagy Control and Tumor Cell Survival.</p> <p>"Published figure using Phospho-IRS1 (Tyr612) polyclonal antibody (Product # 44-816G) in Immunofluorescence"</p> <p>Authors: Lassak A,Dean M,Wyczzechowska D,Wilk A,Marrero L,Trillo-Tinoco J,Boulares AH,Sarkaria JN,Del Valle L,Peruzzi F,Ochoa A,Reiss K</p>	<p>Year 2018</p> <p>Species Human</p>

More applications with references on thermofisher.com

- IHC (PFA) (1)
- ICC/IF (3)
- IP (2)
- FN (1)
- Misc (3)

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