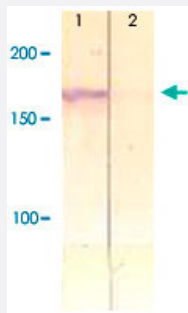


IRS1 (phospho S312) polyclonal antibody

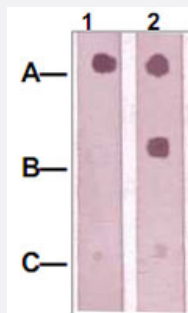
Catalog # PAB12627 Size 100 ug

Applications



Immunoprecipitation

The cell lysate derived from insulin stimulated CHO was immunoprecipitated by IRS1 (phospho S312) polyclonal antibody (Cat # PAB12627), then immunoprobed by the same antibody at 1 : 500 (Lane 1). Lane 2 is a negative control.



Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : IRS1 (pS312).

B : IRS1 (non phosphorylated).

C : Non-related Phosphopeptide.

Followed by rabbit antibodies incubation at a 1 : 1000 dilution.

1. IRS1 (phospho S312) polyclonal antibody (Cat # PAB12627).

2. IRS1 polyclonal antibody (Cat # PAB12695).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of IRS1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S312 of human IRS1.
Sequence	ATSPA
Host	Rabbit
Theoretical MW (kDa)	165
Reactivity	Human, Mouse, Rat

Specificity	This antibody recognizes ~165 KDa of human IRS1 (pSer312).
Form	Liquid
Purification	Site-modified epitope affinity purification
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) Immunohistochemistry (0.5-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300).
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

The cell lysate derived from insulin stimulated CHO was immunoprecipitated by IRS1 (phospho S312) polyclonal antibody (Cat # PAB12627), then immunoprobed by the same antibody at 1 : 500 (Lane 1). Lane 2 is a negative control.

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : IRS1 (pS312).

B : IRS1 (non phosphorylated).

C : Non-related Phosphopeptide.

Followed by rabbit antibodies incubation at a 1 : 1000 dilution.

1. IRS1 (phospho S312) polyclonal antibody (Cat # PAB12627).
2. IRS1 polyclonal antibody (Cat # PAB12695).

Gene Info — IRS1

Entrez GeneID

[3667](#)

Gene Name	IRS1
Gene Alias	HIRS-1
Gene Description	insulin receptor substrate 1
Omim ID	125853 147545
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- [Protein kinase C Theta inhibits insulin signaling by phosphorylating IRS1 at Ser\(1101\).](#)

Li Y, Soos TJ, Li X, Wu J, Degennaro M, Sun X, Littman DR, Birnbaum MJ, Polakiewicz RD.

The Journal of Biological Chemistry 2004 Sep; 279(44):45304.

Pathway

- [Adipocytokine signaling pathway](#)
- [Insulin signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Type II diabetes mellitus](#)

Disease

- [Adenocarcinoma](#)
- [Adenomatous Polyps](#)
- [Adrenal hyperplasia](#)
- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)

- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fatty Liver](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)

- [Hepatitis](#)
- [Hirsutism](#)
- [Hyperandrogenism](#)
- [Hypercholesterolemia](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Multiple Myeloma](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Diseases](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Prostate cancer](#)

- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Schizophrenia](#)
- [Sleep Apnea](#)
- [Thinness](#)
- [Thrombosis](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Weight Loss](#)
- [Werner syndrome](#)