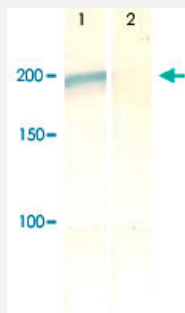


IRS2 (phospho S731) polyclonal antibody

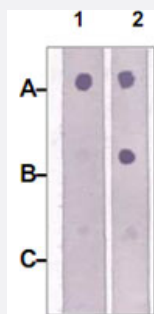
Catalog # PAB12629 Size 100 ug

Applications



Immunoprecipitation

The cell lysate derived from conditioned NIH/3T3 was immunoprecipitated by IRS2 (phospho S731) polyclonal antibody (Cat # PAB12629), 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 : IRS2 (pS731).

B : IRS2 (non phosphorylated).

C : Non-related Phosphopeptide.

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

1. IRS2 (phospho S731) polyclonal antibody (Cat # PAB12629).

2. IRS2 polyclonal antibody (Cat # PAB12697).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of IRS2.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S731 of human IRS2.
Sequence	ASSPA
Host	Rabbit
Theoretical MW (kDa)	180
Reactivity	Human, Mouse, Rat

Specificity	This antibody recognizes ~180 KDa of human IRS2 (pSer731).
Form	Liquid
Recommend Usage	ELISA (0.01-0.1 ug/mL) Immunohistochemistry (0.5-2 ug/mL) Immunoprecipitation (2-5 ug/mL) Western Blot (0.1-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (Antibody Stabilizer).
Storage Instruction	Store at 4°C for three month without detectable loss of activity. 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 conditioned NIH/3T3 was immunoprecipitated by IRS2 (phospho S731) polyclonal antibody (Cat # PAB12629), 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 : IRS2 (pS731).

B : IRS2 (non phosphorylated).

C : Non-related Phosphopeptide.

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

1. IRS2 (phospho S731) polyclonal antibody (Cat # PAB12629).
2. IRS2 polyclonal antibody (Cat # PAB12697).

Gene Info — IRS2

Entrez GeneID	8660
Gene Name	IRS2
Gene Alias	-

Gene Description	insulin receptor substrate 2
Omim ID	125853 600797
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the insulin receptor substrate 2, a cytoplasmic signaling molecule that mediates effects of insulin, insulin-like growth factor 1, and other cytokines by acting as a molecular adaptor between diverse receptor tyrosine kinases and downstream effectors. The product of this gene is phosphorylated by the insulin receptor tyrosine kinase upon receptor stimulation, as well as by an interleukin 4 receptor-associated kinase in response to IL4 treatment. [provided by RefSeq]
Other Designations	OTTHUMP00000018696

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](#)
- [Alzheimer disease](#)
- [Ascariasis](#)
- [Asthma](#)
- [Atherosclerosis](#)

- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hepatitis](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Multiple Myeloma](#)
- [Neoplasms](#)

- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Pancreatic Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Rectal Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Diseases](#)