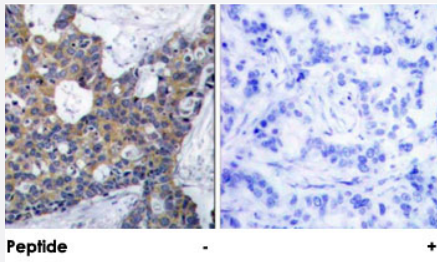


IRS1 polyclonal antibody

Catalog # PAB18482 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IRS1 polyclonal antibody (Cat # PAB18482).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of IRS1.
Immunogen	A synthetic peptide corresponding to residues surrounding S639 of human IRS1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to IRS1.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IRS1 polyclonal antibody (Cat # PAB18482).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — IRS1

Entrez GeneID[3667](#)**Protein Accession#**[P35568](#)**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.

Application: IP-WB, Mouse, 3T3-L1, C2C12 cells

- [Adipose-specific expression, phosphorylation of Ser794 in insulin receptor substrate-1, and activation in diabetic animals of salt-inducible kinase-2.](#)

Horike N, Takemori H, Katoh Y, Doi J, Min L, Asano T, Sun XJ, Yamamoto H, Kasayama S, Muraoka M, Nonaka Y, Okamoto M.
Journal of Biological Chemistry 2003 May; 278(20):18440.

- [Serine phosphorylation of insulin receptor substrate 1 by inhibitor kappa B kinase complex.](#)

Gao Z, Hwang D, Bataille F, Lefevre M, York D, Quon MJ, Ye J.

The Journal of Biological Chemistry 2002 Dec; 277(50):48115.

Application: IP-WB, WB-Ce, WB-Tr, Human, HepG2, HEK 293 cells

- [A phosphatidylinositol 3-kinase/Akt/mTOR pathway mediates and PTEN antagonizes tumor necrosis factor inhibition of insulin signaling through insulin receptor substrate-1.](#)

Ozes ON, Akca H, Mayo LD, Gustin JA, Maehama T, Dixon JE, Donner DB.

PNAS 2001 Apr; 98(8):4640.

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](#)