

Datasheet for ABIN6987983

anti-IRS1 antibody (pTyr632) (HRP)



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Overview

Quantity:	100 µL
Target:	IRS1
Binding Specificity:	pTyr632
Reactivity:	Human, Mouse, Rat, Pig, Rabbit, Dog, Cow, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRS1 antibody is conjugated to HRP
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human IRS1 around the phosphorylation site of Tyr632
Isotype:	IgG
Cross-Reactivity:	Cow, Dog, Human, Mouse, Pig, Rabbit, Rat, Sheep
Purification:	Purified by Protein A.

Target Details

Target:	IRS1
Alternative Name:	IRS1 (IRS1 Products)
Background:	Synonyms: IRS1 (phospho Tyr632), IRS1 (phospho Y632), p-IRS1 (phospho Y632), HIRS 1,

Target Details

HIRS1, Insulin Receptor Substrate 1, IRS 1, IRS-1, IRS1, IRS1_HUMAN, OTTHUMP00000164234.

Background: Insulin receptor substrates (IRS) are responsible for several insulin related activities, such as glucose homeostasis, cell growth, cell transformation, apoptosis and insulin signal transduction. Serine/threonine phosphorylation of IRS1 has been demonstrated to be a negative regulator of insulin signaling and is responsible for its degradation, although IRS1 degradation pathways are not well understood. IRS1 has also been shown to be constitutively activated in cancers such as breast cancer, Wilm's tumors, and adrenal cortical carcinomas, thus making IRS1 phosphorylation and subsequent degradation an attractive therapeutic target. To date there have been four subtypes identified: IRS1, 2, 3 and 4, with IRS1 being widely expressed.

Gene ID: 3667

UniProt: [P35568](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Positive Regulation of Peptide Hormone Secretion](#), [Hormone Transport](#), [Negative Regulation of Hormone Secretion](#), [Response to Growth Hormone Stimulus](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Handling

Expiry Date: 12 months