antibodies - online.com







anti-IRS1 antibody (AA 1041-1242)





Publication



Overview	
Quantity:	100 μg
Target:	IRS1
Binding Specificity:	AA 1041-1242
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IRS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Insulin receptor substrate 1(IRS1) detection. Tested with WB, IHC-P in Human, Mouse, Rat.
Immunogen:	E.coli-derived human IRS1 recombinant protein (Position: S1041-Q1242). Human IRS1 shares 78% and 80% amino acid (aa) sequences identity with mouse and rat IRS1, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Insulin receptor substrate 1(IRS1) detection. Tested with WB, IHC-P in Human, Mouse, Rat. Gene Name: insulin receptor substrate 1 Protein Name: Insulin receptor substrate 1
Purification:	Immunogen affinity purified.

Target Details

Target:	IRS1
Alternative Name:	IRS1 (IRS1 Products)
Background:	Insulin receptor substrate 1(IRS-1) is a signalling adapter protein that in humans is encoded by
	the IRS-1 gene. It is mapped to 2q36.3. This gene exhibited no intrinsic enzyme activity, and it
	can serve as a docking protein involved in binding and activating other signal transduction
	molecules after being phosphorylated on tyrosine by insulin receptor kinase. IRS1 plays a key
	role in transmitting signals from the insulin and insulin-like growth factor-1(IGF-1) receptors to
	intracellular pathways PI3K/Akt and Erk MAP kinase pathways. IRS1 also has important
	biological function for both metabolic and mitogenic(growth promoting) pathways. In addition
	to those, IRS1 is a key regulator of PI3K within malignant cells.
	Synonyms: HIRS 1 antibody HIRS1 antibody Insulin Receptor Substrate 1 antibody IRS 1
	antibody IRS-1 antibody IRS1 antibody IRS1_HUMAN antibody OTTHUMP00000164234
	antibody
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:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, The detection limit for IRS1 is
	approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the
	staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

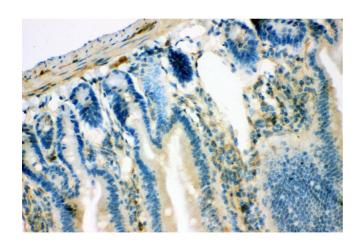
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu g/mL$.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:

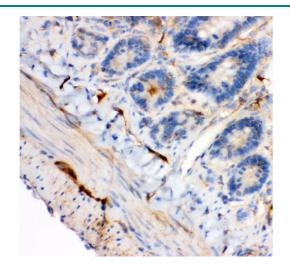
Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adenoassociated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) (PubMed).

Images



Immunohistochemistry

Image 1. Anti- IRS1 antibody, IHC(P) IHC(P): Mouse Intestine Tissue



Immunohistochemistry

Image 2. Anti- IRS1 antibody, IHC(P) IHC(P): Rat Intestine Tissue

100KD -

70KD-

55KD-

35KD-

25KD-

15KD-

Western Blotting

Image 3.

 $Please\ check\ the\ product\ details\ page\ for\ more\ images.\ Overall\ 7\ images\ are\ available\ for\ ABIN3043251.$