

Product datasheet for **TA307786**

IRS2 Rabbit Monoclonal Antibody [Clone ID: EPR904(2)]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EPR904(2)
Applications:	FC, IHC, WB
Recommended Dilution:	WB: 1:1000 - 1:10000; IHC-P: 1:50 - 1:100; FC: 1:100 - 1:1000
Reactivity:	Mouse, Human (Does not react with: Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues in human IRS-2 was used as an immunogen.
Formulation:	pH: 7.40 Preservative: 0.01% Sodium azide; Constituents: 50% Glycerol, 0.05% BSA
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	insulin receptor substrate 2
Database Link:	NP_003740 Entrez Gene 29376 Rat Entrez Gene 384783 Mouse Entrez Gene 8660 Human Q9Y4H2

Background: Insulin receptor substrates (IRS), the major intracellular substrates of the insulin receptor (IR), are adaptor proteins that transduce signals from the IR to downstream effectors that are important for the biological effect of insulin (1-2). After insulin stimulation, IRS proteins are rapidly phosphorylated on multiple tyrosine residues. Once phosphorylated, IRS proteins bind and activate Grb-2, SHP2 and the PI3-K p85 subunit (2-3). Sequences of IRS-2 and IRS-1 reveal a highly conserved amino terminus containing a pleckstrin-homology domain and a phosphotyrosine-binding domain, and a poorly conserved carboxy terminus containing several tyrosine phosphorylation motifs. IRS-2 is expressed in many cells, including tissues from IRS-1^{-/-} mice, and may be essential for signaling by several receptor systems such as insulin and cytokine (1).

Synonyms: IRS-2



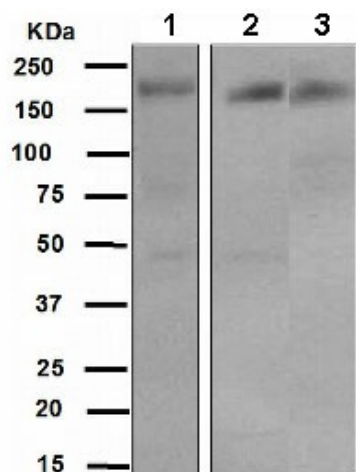
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Note: Is unsuitable for ICC or IP.

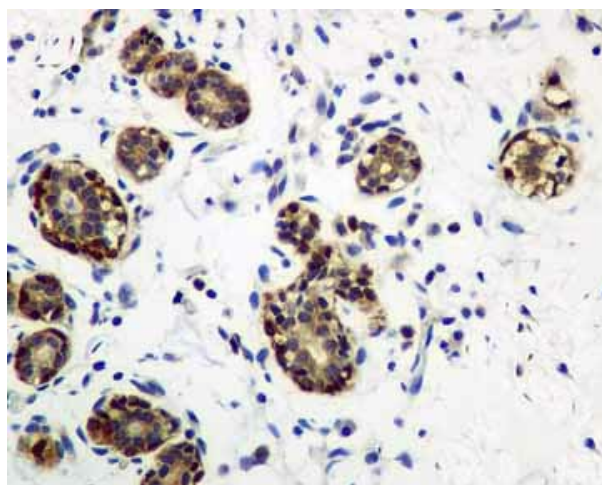
Protein Families: Druggable Genome

Protein Pathways: Adipocytokine signaling pathway, Insulin signaling pathway, Neurotrophin signaling pathway, Type II diabetes mellitus

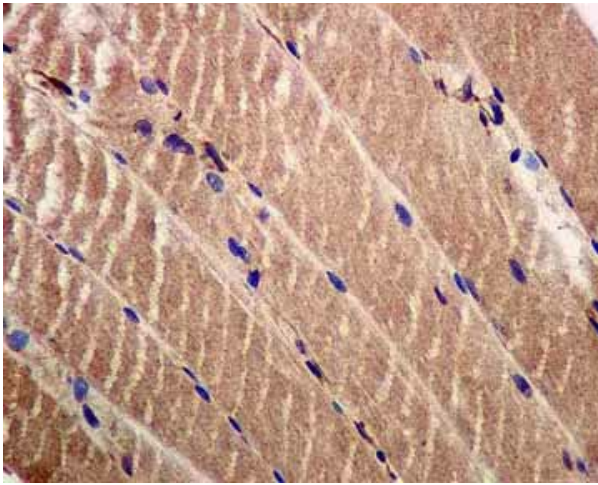
Product images:



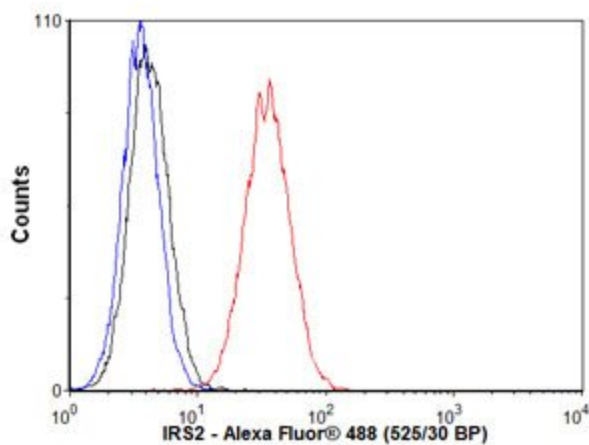
Western blot - Anti-IRS2 antibody [EPR904 (2)]; All lanes : Anti-IRS2 antibody [EPR904 (2)] at 1/1000 dilution. Lane 1 : 293T cell lysate. Lane 2 : 293T + insulin cell lysate. Lane 3 : SH-SY5Y cell lysate. Lysates/proteins at 10 ug per lane. Secondary. HRP labelled goat anti-rabbit at 1/2000 dilution. Predicted band size : 137 kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRS2 antibody [EPR904 (2)]; Immunohistochemical analysis of paraffin-embedded Human breast tissue labelling IRS2 with TA307786 at 1/50 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRS2 antibody [EPR904 (2)]; Immunohistochemical analysis of paraffin-embedded Human muscle tissue labelling IRS2 with TA307786 at 1/50 dilution.



Flow Cytometry - Anti-IRS2 antibody; Overlay histogram showing HeLa cells stained with TA307786 (red line). The secondary antibody used was Alexa Fluor 488 goat anti-rabbit IgG (H&L) at 1:2000. Isotype control antibody (black line) was rabbit IgG (monoclonal) used under the same conditions. Unlabelled sample (blue line) was also used as a control. This antibody gave a positive signal in HeLa cells under the same conditions.