

IRS2 Antibody

Rabbit mAb Catalog # AP91662

Specification

IRS2 Antibody - Product Information

Application WB, IHC, FC, ICC

Primary Accession

Reactivity

Clonality

O9Y4H2

Rat

Monoclonal

Other Names

Insulin receptor substrate 2; IRS 2; IRS-2;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 137334 Da

IRS2 Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

IRS2

Description May mediate the control of various cellular

processes by insulin.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide

and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

IRS2 Antibody - Protein Information

Name IRS2

Function

Signaling adapter protein that participates in the signal transduction from two prominent receptor tyrosine kinases, insulin receptor/INSR and insulin-like growth factor I receptor/IGF1R (PubMed:25879670). Plays therefore an important role in development, growth, glucose homeostasis as well as lipid metabolism (PubMed:24616100" target="_blank">24616100). Upon phosphorylation by the insulin receptor, functions as a signaling scaffold that propagates insulin action through binding to SH2 domain-containing proteins including the p85 regulatory subunit of PI3K, NCK1, NCK2, GRB2 or SHP2 (PubMed:1531600819109239<a href="http://www.unipr



regulates cell growth and differentiation. Acts a positive regulator of the Wnt/beta- catenin signaling pathway through suppression of DVL2 autophagy- mediated degradation leading to cell proliferation (PubMed:24616100). Plays a role in cell cycle progression by promoting a robust spindle assembly checkpoint (SAC) during M-phase (PubMed:32554797). In macrophages, IL4-induced tyrosine phosphorylation of IRS2 leads to the recruitment and activation of phosphoinositide 3-kinase (PI3K) (PubMed:19109239).

Cellular Location

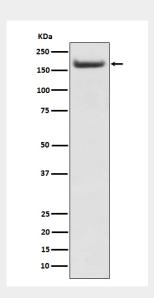
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P81122}

IRS2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IRS2 Antibody - Images



Western blot analysis of IRS2 expression in HEK293 cell treated with insulin.