

**IRS2 Rabbit mAb**  
Catalog # AP77123**Specification****IRS2 Rabbit mAb - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q9Y4H2</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Monoclonal Antibody</b>
Calculated MW	<b>137334</b>

**IRS2 Rabbit mAb - Additional Information**

Gene ID 8660

**Other Names**

IRS2

**Dilution**

WB~~1/500-1/1000

**Format**

Liquid

**IRS2 Rabbit mAb - 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: <a href="http://www.uniprot.org/citations/25879670" target="\_blank">25879670</a>). Plays therefore an important role in development, growth, glucose homeostasis as well as lipid metabolism (PubMed: <a href="http://www.uniprot.org/citations/24616100" target="\_blank">24616100</a>). 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: <a href="http://www.uniprot.org/citations/15316008" target="\_blank">15316008</a>, PubMed: <a href="http://www.uniprot.org/citations/19109239" target="\_blank">19109239</a>). Recruitment of GRB2 leads to the activation of the guanine nucleotide exchange factor SOS1 which in turn triggers the Ras/Raf/MEK/MAPK signaling cascade (By similarity). Activation of the PI3K/AKT pathway is responsible for most of insulin metabolic effects in the cell, and the Ras/Raf/MEK/MAPK is involved in the regulation of gene expression and in cooperation with the PI3K pathway 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: <a href="http://www.uniprot.org/citations/24616100" target="\_blank">24616100</a>). Plays a role in cell cycle progression by promoting a robust

spindle assembly checkpoint (SAC) during M-phase (PubMed:<a href="http://www.uniprot.org/citations/32554797" target="\_blank">32554797</a>). In macrophages, IL4-induced tyrosine phosphorylation of IRS2 leads to the recruitment and activation of phosphoinositide 3-kinase (PI3K) (PubMed:<a href="http://www.uniprot.org/citations/19109239" target="\_blank">19109239</a>).

#### Cellular Location

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

#### IRS2 Rabbit mAb - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### IRS2 Rabbit mAb - Images

