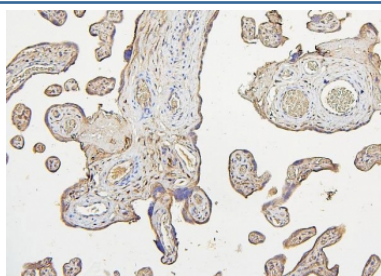


IRS1 Antibody / Insulin receptor substrate 1 [clone 10I3] (RQ5507)

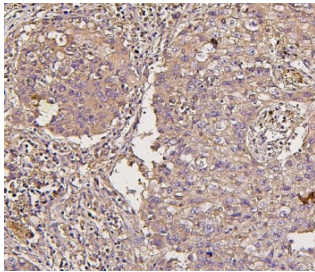
Catalog No.	Formulation	Size
RQ5507	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

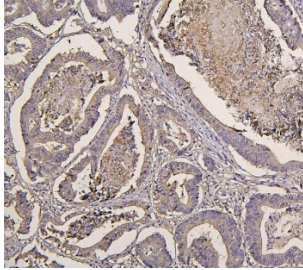
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	10I3
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P35568
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence/Immunocytochemistry : 2-4ug/ml
Limitations	This IRS1 antibody is available for research use only.



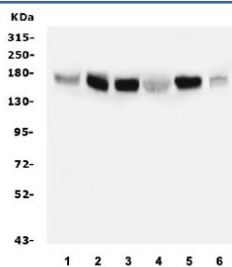
IHC staining of FFPE human placenta with IRS1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



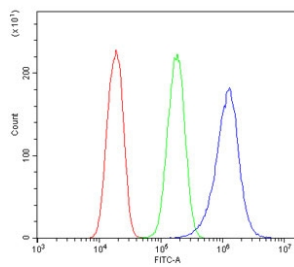
IHC staining of FFPE human lung cancer with IRS1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



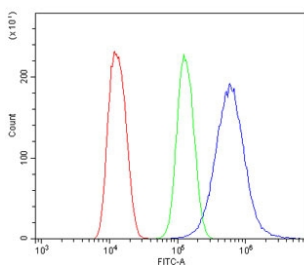
IHC staining of FFPE human colon cancer with IRS1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



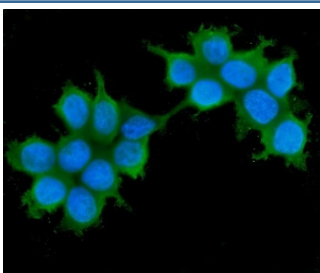
Western blot testing of human 1) A549, 2) T-47D, 3) Caco-2, 4) SW620, 5) HeLa and 6) Raji lysate with IRS1 antibody. Expected molecular weight: 132~185 kDa depending on phosphorylation level.



Flow cytometry testing of human PC-3 cells with IRS1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IRS1 antibody.



Flow cytometry testing of human U-2 OS cells with IRS1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= IRS1 antibody.



IF/ICC staining of FFPE human MCF7 cells with IRS1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

Insulin receptor substrate 1 (IRS-1) is a signalling adapter protein that in humans is encoded by the IRS1 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.

Application Notes

Optimal dilution of the IRS1 antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids S1041-Q1242) was used as the immunogen for the IRS1 antibody.

Storage

After reconstitution, the IRS1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.