

Product Name: KD-Validated Insulin Receptor Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01785

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 156.3kDa

Antigen Information

Gene Name	INSR
Alternative Names	INSR; Insulin Receptor; CD220; EC 2.7.10.1; IR; CD220 Antigen; EC 2.7.10; HHF5
Gene ID	3643.0
SwissProt ID	P06213
Immunogen	A synthesized peptide derived from human Insulin Receptor

Background

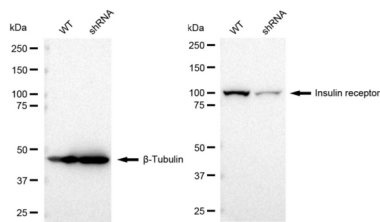
This gene encodes a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes

including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

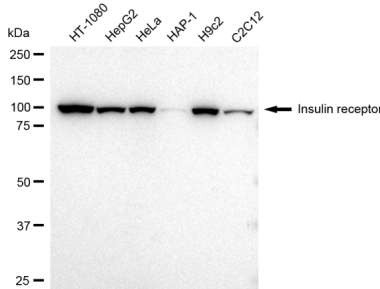
Research Area

Signal Transduction, Neuroscience, Cardiovascular, Metabolism

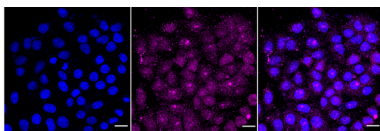
Image Data



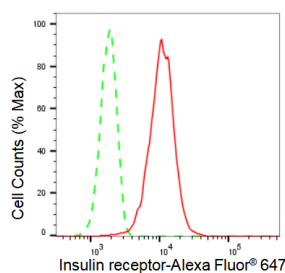
Western blotting analysis using insulin receptor antibody (KVA01785). Insulin receptor expression in wild type (WT) and insulin receptor (INSR) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Insulin receptor antibody (KVA01785, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Insulin receptor antibody (KVA01785). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Insulin receptor antibody (KVA01785, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with insulin receptor antibody (KVA01785, 1:1,000). Nuclei were stained blue with DAPI; Insulin receptor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Insulin receptor expression in HT-1080 cells using Insulin receptor antibody (KVA01785, 1:2,000). Green, isotype control; red, Insulin receptor.