

Phospho-IGF-IRceptor β (Tyr1135/1136)/InsulinReceptor β (Tyr1150/1151) Rabbit pAb

Catalog No.: AP1352 **2 Publications**

Basic Information

Observed MW

102kDa

Calculated MW

156kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human

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. This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

Recommended Dilutions

WB 1:1000 - 1:5000

ELISA Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

3643/3480

Swiss Prot

P06213/P08069

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

HHF5; CD220; IGFR; CD221; IGFR; JTK13; Phospho-IGF-IRceptor β (Tyr1135/1136)/InsulinReceptor β (Tyr1150/1151)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

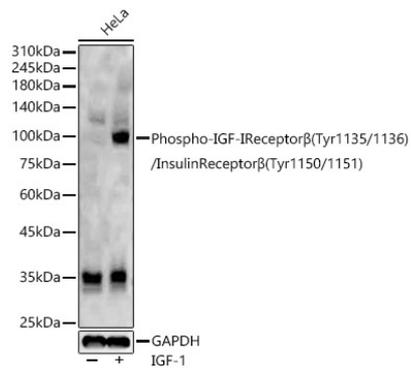
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-IGF-IR Receptor β (Tyr1135/1136)/Insulin Receptor β (Tyr1150/1151) Rabbit pAb (AP1352) at 1:2000 dilution. HeLa cells were treated with IGF-1 (50 ng/ml) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 20s.