

GRB14 Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22374a**Specification**

GRB14 Antibody (N-Term) - Product Information

Application	IF, WB, FC,E
Primary Accession	Q14449
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG

GRB14 Antibody (N-Term) - Additional Information**Gene ID** 2888**Other Names**

Growth factor receptor-bound protein 14, GRB14 adapter protein, GRB14

Target/Specificity

This GRB14 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 14-48 amino acids from the human region of human GRB14.

Dilution

IF~~1:25

WB~~1:1000

FC~~1:25

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GRB14 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

GRB14 Antibody (N-Term) - Protein Information**Name** GRB14

Function Adapter protein which modulates coupling of cell surface receptor kinases with specific signaling pathways. Binds to, and suppresses signals from, the activated insulin receptor (INSR). Potent inhibitor of insulin-stimulated MAPK3 phosphorylation. Plays a critical role regulating PDPK1

membrane translocation in response to insulin stimulation and serves as an adapter protein to recruit PDPK1 to activated insulin receptor, thus promoting PKB/AKT1 phosphorylation and transduction of the insulin signal.

Cellular Location

Cytoplasm. Endosome membrane; Peripheral membrane protein. Note=Upon insulin stimulation, translocates to the plasma membrane.

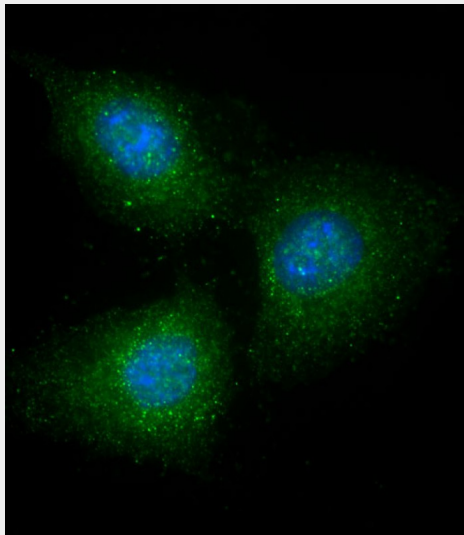
Tissue Location

Expressed at high levels in the liver, kidney, pancreas, testis, ovary, heart and skeletal muscle

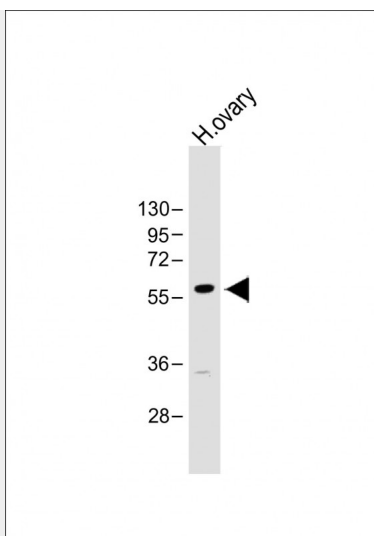
GRB14 Antibody (N-Term) - Protocols

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

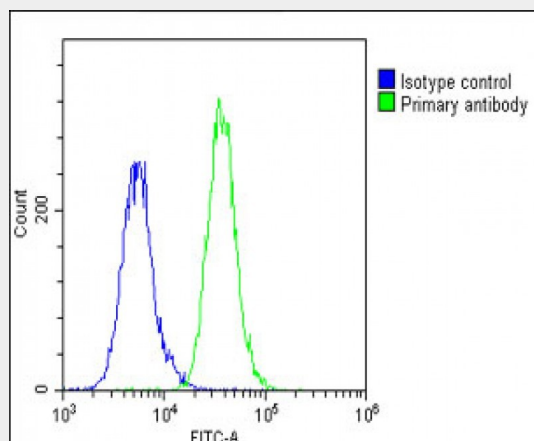
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GRB14 Antibody (N-Term) - Images

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A549 cells labeling GRB14 with AP22374a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-Rabbit IgG (OH191631) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on A549 cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (1186255) at 1/500 dilution (red). The nuclear counter stain is DAPI (blue).



Overlay histogram showing A549 cells stained with AP22374a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22374a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.



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GRB14 Antibody (N-Term) - Background

Adapter protein which modulates coupling of cell surface receptor kinases with specific signaling pathways. Binds to, and suppresses signals from, the activated insulin receptor (INSR). Potent inhibitor of insulin-stimulated MAPK3 phosphorylation. Plays a critical role regulating PDK1 membrane translocation in response to insulin stimulation and serves as an adapter protein to recruit PDK1 to activated insulin receptor, thus promoting PKB/AKT1 phosphorylation and

transduction of the insulin signal.

GRB14 Antibody (N-Term) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).

Hillier L.W.,et al.Nature 434:724-731(2005).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Bereziat V.,et al.J. Biol. Chem. 277:4845-4852(2002).