

GRB14 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8969a**Specification**

GRB14 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q14449](#)**GRB14 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2888**Other Names**

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8969a](/products/AP8969a) was selected from the N-term region of human GRB14. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GRB14 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GRB14 Antibody (N-term) Blocking Peptide - Images

GRB14 Antibody (N-term) Blocking Peptide - Background

GRB14 is a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors. This protein likely has an inhibitory effect on receptor tyrosine kinase signaling and, in particular, on insulin receptor signaling.

GRB14 Antibody (N-term) Blocking Peptide - References

Jones,N., et.al., J. Biol. Chem. 274 (43), 30896-30905 (1999)Reilly,J.F., et.al., J. Biol. Chem. 275 (11), 7771-7778 (2000)