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GRB14 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51245

Product Information

Application	WB, IP, IHC-P
Primary Accession	Q14449
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60988

Additional Information

Gene ID	2888
Other Names	Growth factor receptor-bound protein 14, GRB14 adapter protein, GRB14
Dilution	WB~~1:1000 IP~~N/A IHC-P~~N/A
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

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 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.

References

Daly R.J.,et al.J. Biol. Chem. 271:12502-12510(1996).
Bereziat V.,et al.J. Biol. Chem. 277:4845-4852(2002).
King C.C.,et al.J. Biol. Chem. 279:37518-37527(2004).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).
Depetris R.S.,et al.Nat. Struct. Mol. Biol. 16:833-839(2009).