

anti-GRB14

Cat #: HM1167
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Many growth factors function by binding receptors with intrinsic tyrosine kinase activity. Signaling by such receptors involves series of intermediates characterized by SH2 domains that bind tyrosine phosphorylated receptors by a direct interaction between the SH2 domain and specific phospho-tyrosine-containing receptor sequences. GRB14 belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. It contains pleckstrin homology domain in its central region and a carboxy terminal SH2 domain. GRB14 mRNA is expressed at high levels in a broad range of tissues including liver, kidney, pancreas, testis, ovary, heart and skeletal muscle. GRB14 interacts with insulin receptors and insulin-like growth-factor receptors. It has an inhibitory effect on receptor tyrosine kinase signaling and, in particular, on insulin receptor signaling. GRB14 may play a role in signaling pathways that regulate growth and metabolism. Expression of the 58 kDa GRB14 protein in breast carcinomas is strongly correlated with estrogen receptor positivity.

SPECIFICITY

This antibody specifically reacts with GRB14 of mouse, rat and human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A peptide at the amino terminus of human GRB14.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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