

---

**anti-GRB2**

Cat #: HM1168  
Mouse monoclonal 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. GRB2 binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences.

**SPECIFICITY**

This antibody reacts specifically with GRB2 p25 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections).

Molecular Weight of GRB2: 25 kDa. Western blotting positive controls: Jurkat cell lysate.

**IMMUNOGEN**

A peptide at the carboxy terminus of human GRB2.

**STORAGE**

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

**REFERENCES**

1. Skolnik, E.Y., Batzer, A., Li, N., Lee, C.H., Lowenstein, E., Mohammadi, M., Margolis, B., and Schlessinger, J. 1993. The function of GRB2 in linking the insulin receptor to ras signaling pathways. *Science* 260: 1953-1955.
2. Lowenstein, E.J., Daly, R.J., Batzer, A.G., Li, W., Margolis, B., Lammers, R., Ullrich, A., Skolnik, E.Y., Bar-Sagi, D., and Schlessinger, J. 1992. The SH2 and SH3 domain-containing protein GRB2 links receptor tyrosine kinases to ras signaling. *Cell* 40: 431-442.
3. Simon, M.A., Dodson, G.S., and Rubin, G.M. 1993. An SH3-SH2-SH3 protein is required for p21 ras 1 activation and binds to sevenless and Sos proteins *in vitro*. *Cell* 73: 169-177.
4. Egan, S.E., Giddings, B.W., Brooks, M.W., Buday, L., Sizeland, A.M., and Weinberg, R.A. 1993. Association of Sos ras exchange protein with Grb2 is implicated in tyrosine kinase signal transduction and transformation. *Nature* 363: 45-51.
5. Buday, L. and Downward, J. 1993. Epidermal growth factor regulates p21 ras through the formation of a complex of receptor, Grb2 adaptor protein, and Sos nucleotide exchange factor. *Cell* 73: 611-620.

6. Daly, R.J., Sanderson, G.M., Janes, P.W. and Sutherland, R.L. (1996) Cloning and characterization of GRB14, a novel member of the GRB7 gene family. *J. Biol. Chem.* 271, 12502-12510.
7. Martin, M., Del Valle, J.M., Saborit, I. and Engel, P. (2005) Identification of Grb2 as a novel binding partner of the signaling lymphocytic activation molecule-associated protein binding receptor CD229. *J. Immunol.* 174, 5977-5986.

**PRODUCTS FROM HYPROMATRIX, INC.****A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™  
Catalog Number HM3000
2. Apoptosis AntibodyArray™  
Catalog Number HM4000
3. Cell Cycle AntibodyArray™  
Catalog Number HM5000

**B. Staining AntibodyArray™s**

1. Staining AntibodyArray™ I  
Catalog Number HM8100
2. AntibodyArray Staining Apparatus  
Catalog Number HM8000

**C. Antibodies****1. HRP-conjugated antibodies**

- anti-phosphotyrosine  
Catalog Number HM2040
- anti-phosphoserine  
Catalog Number HM2070
- anti-phosphothreonine  
Catalog Number HM2090

and more...

**2. Primary antibodies**

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at [www.hypromatrix.com](http://www.hypromatrix.com).

**CONTACT**

**Hypromatrix, Inc.**  
100 Barber Avenue  
Worcester, MA 01606  
USA

Tel: 508-856-7900  
Fax: 508-302-0748  
Email: [contact@hypromatrix.com](mailto:contact@hypromatrix.com)  
Web: [www.hypromatrix.com](http://www.hypromatrix.com)