
Anti- LIFR

Cat #: HM1213
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

The leukemia inhibitory factor is a polyfunctional cytokine that affects the differentiation, survival, and proliferation of a wide variety of cells in the adult and the embryo. LIF action appears to be mediated through a high-affinity receptor complex composed of a low-affinity LIF binding chain (LIF receptor) and a high-affinity converter subunit, gp130. Both LIFR and gp130 are members of a family of cytokine receptors that includes components of the receptors for the majority of hematopoietic cytokines and for cytokines that affect other systems, including the ciliary neurotrophic factor, growth hormone and prolactin.

SPECIFICITY

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

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

Molecular Weight of LIFR: 190 kDa.

Western blotting positive controls: HeLa

IMMUNOGEN

A synthetic peptide derived from N-terminus of human LIFR protein.

STORAGE

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

REFERENCES

1. Gearing,D.P., Thut,C.J., VandeBos,T., Gimpel,S.D., Delaney,P.B., King,J., Price,V., Cosman,D. and Beckmann,M.P. (1991) Leukemia inhibitory factor receptor is structurally related to the IL-6 signal transducer, gp130. *EMBO J.* 10, 2839-2848.
2. Gearing,D.P., Comeau,M.R., Friend,D.J., Gimpel,S.D., Thut,C.J., McGourty,J., Brasher,K.K., King,J.A., Gillis,S., Mosley,B. et al. (1992) The IL-6 signal transducer, gp130: an oncostatin M receptor and affinity converter for the LIF receptor. *Science* 255 (5050), 1434-1437.
3. Davis, S., Aldrich, T.H., Stahl, N., Pan, L., Taga, T., Kishimoto, T., Ip, N.Y., and Yancopoulos, G.D. 1993. LIFR β and gp130 as heterodimerizing signal transducers of the tripartite CNTF receptor. *Science* 260: 1805-1808.

4. Kishimoto, T., Taga, T., and Akira, S. 1994. Cytokine signal transduction. *Cell* 76: 253-262.
5. Plun-Favreau,H., Perret,D., Diveu,C., Froger,J., Chevalier,S., Lelievre,E., Gascan,H. and Chabbert,M. (2003) Leukemia inhibitory factor (LIF), cardiotrophin-1, and oncostatin M share structural binding determinants in the immunoglobulin-like domain of LIF receptor. *J. Biol. Chem.* 278, 27169-27179.

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.

CONTACT

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

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com