

Anti-Ntk

Cat #: HM1257
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Ntk, also designated as Ctk and Lsk, is a Csk-like protein-tyrosine kinase. It has the structural features of the CSK subfamily: SH2 and SH3 domains, a catalytic domain, and a unique N terminus. Ntk lacks myristylation signals, the negative regulatory phosphorylation site, and lacks an autophosphorylation site. It is thought to play a significant role in the signal transduction of hematopoietic cells. Ntk is able to phosphorylate and inactivate Src family kinases, and may play an inhibitory role in the control of T-cell proliferation. It might be involved in signaling in some cases of breast cancer.

SPECIFICITY

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

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

IMMUNOGEN

A recombinant protein corresponding to the N-terminus of human Ntk protein.

STORAGE

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

REFERENCES

1. Nada, S., Yagi, T., Takeda, H., Tokunaga, T., Nakagawa, H., Ikawa, Y., Okada, M., and Aizawa, S. 1993. Constitutive activation of Src family kinases in mouse embryos that lack csk. *Cell* 73: 1125-1135.
2. Superti-Furga, G., Fumagalli, S., Koegl, M., Courtneidge, S.A., and Draetta, G. 1993. Csk inhibition of c-Src activity requires both the SH2 and SH3 domains of Src. *EMBO J.* 12: 2625-2634.
3. Klages, S., Adam, D., Class, K., Fagnoli, J., Bolen, J.B., and Penhallow, R.C. 1994. Ctk: a protein-tyrosine kinase related to Csk that defines an enzyme family. *Proc. Natl. Acad. Sci. USA* 91: 2597-2601.
4. Chow, L.M.L., Jarvis, C., Hu, Q., Nye, S.H., Gervais, F.G., Veillette, A., and Matis, L.A. Ntk: a csk-related protein-tyrosine kinase expressed in brain and T lymphocytes. *Proc. Natl. Acad. Sci. USA* 91: 4975-4979.
5. McVicar, D.W., Lal, B.K., Lloyd, A., Kawamura, M., Chen, Y.-Q., Zhang, X., Staples, J.E., Ortaldo, J.R., and O'Shea, J.J. 1994. Molecular cloning of Isk, a carboxyl-terminal src kinase (csk) related gene, expressed in leukocytes. *Oncogene* 9: 2037-2044.

6. Chow, L.M., Davidson, D., Fournel, M., Gosselin, P., Lemieux, S., Lyu, M.S., Kozak, C.A., Matis, L.A. and Veillette, A. (1994) Two distinct protein isoforms are encoded by ntk, a csk-related tyrosine protein kinase gene. *Oncogene* 9, 3437-3448
7. Grgurevich, S., Linnekin, D., Musso, T., Zhang, X., Modi, W., Varesio, L., Ruscetti, F.W., Ortaldo, J.R. and McVicar, D.W. (1997) The Csk-like proteins Lsk, Hyl, and Matk represent the same Csk homologous kinase (Chk) and are regulated by stem cell factor in the megakaryoblastic cell line MO7e. *Growth Factors* 14, 103-115.

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