
Anti-ALK

Cat #: HM1008
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

ALK, anaplastic lymphoma kinase, was identified as receptor tyrosine kinases having sequence similarity to the insulin receptor subfamily of kinases. It shows the greatest sequence similarity to LTK (leukocyte tyrosine kinase). ALK is normally highly expressed specifically in the nervous system and plays an important role in the development of the brain and exerts its effects on specific neurons in the nervous system. The 2;5 chromosomal translocation is frequently associated with anaplastic large cell lymphomas (ALCLs). The translocation creates a fusion gene consisting of the ALK gene and the nucleophosmin (NPM) gene: the 3' half of ALK, derived from chromosome 2, is fused to the 5' portion of NPM from chromosome 5. The product of the NPM-ALK fusion gene is oncogenic.

SPECIFICITY

This antibody specifically recognizes ALK of human, mouse and rat origin.

The antibody can be used in Western blotting and Immunostaining.

IMMUNOGEN

A recombinant protein corresponding to the C-terminus of human ALK.

STORAGE

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

REFERENCES

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3. Morris, S.W., Kirstein, M.N., Valentine, M.B., Dittmer, K.G., Shapiro, D.N., Saltman, D.L., and Look, A.T. 1994. Fusion of a kinase gene, ALK, to a nucleolar protein gene, NPM, in non-Hodgkin's lymphoma. *Science* 263: 1281-1284.

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5. Miyake, I., Hakomori, Y., Shinohara, A., Gamou, T., Saito, M., Iwamatsu, A. and Sakai, R. 2002) Activation of anaplastic lymphoma kinase is responsible for hyperphosphorylation of ShcC in neuroblastoma cell lines. *Oncogene* 21, 5823-5834.

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