

ALK (5A4): sc-57024

BACKGROUND

LTK, ALK and Ros have been identified as receptor tyrosine kinases having sequence similarity to the Insulin receptor subfamily of kinases. LTK, leukocyte tyrosine kinase, is expressed in murine B lymphocyte precursors and has also been found in forebrain neurons. ALK, anaplastic lymphoma kinase, is normally highly expressed specifically in the nervous system. A truncated form containing the catalytic domain of ALK is expressed as the result of a translocation occurring in many non-Hodgkin's lymphomas. The c-Ros gene was originally identified in mutant form as an oncogene. Ros is normally expressed in a small number of epithelial cell types and may play a role in epithelial development.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ALK (human) mapping to 2p23.2; Alk (mouse) mapping to 17 E1.3.

SOURCE

ALK (5A4) is a mouse monoclonal antibody raised against amino acids 419-520 of ALK of human origin.

PRODUCT

Each vial contains 250 µl culture supernatant containing IgG₁ with < 0.1% sodium azide.

APPLICATIONS

ALK (5A4) is recommended for detection of ALK of mouse and human origin by immunofluorescence (starting dilution to be determined by researcher, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:50-1:500).

Suitable for use as control antibody for ALK siRNA (h): sc-40083, ALK siRNA (m): sc-40084, ALK shRNA Plasmid (h): sc-40083-SH, ALK shRNA Plasmid (m): sc-40084-SH, ALK shRNA (h) Lentiviral Particles: sc-40083-V and ALK shRNA (m) Lentiviral Particles: sc-40084-V.

Molecular Weight of ALK precursor: 176 kDa.

Molecular Weight of B23-ALK fusion protein: 80 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 2) Immunohistochemistry: use ImmunoCruz™: sc-2050 or ABC: sc-2017 mouse IgG Staining Systems.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

This antibody is covered under U.S. Patent No. 6,696,548 and is for research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.