
ALK/p80 (Clone ZM73) Mouse Monoclonal Antibody

Specificity: Human. Others not tested

Immunogen: Recombinant human ALK protein fragment (aa1360-1460)

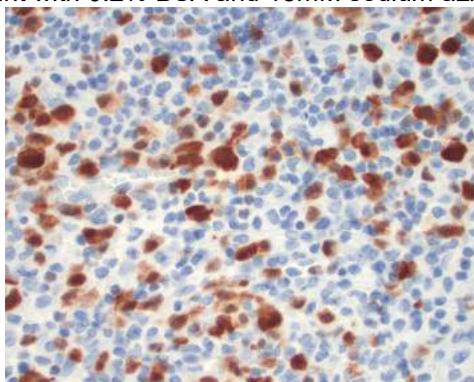
Ig Class: IgG1/ κ

Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* For formalin-fixed tissues, optimal results are obtained by pretreating tissues with heat-induced epitope retrieval using high pH target retrieval solution. *Detection methods:* Polymer anti-mouse/rabbit IgG detection system. *Working dilution:* 1:100-200; *Positive Control:* Anaplastic large cell lymphoma. *Cellular Localization:* Cytoplasmic and nuclear. *Intended Use:* In vitro diagnosis (IVD).

Description: The wild-type anaplastic lymphoma kinase (ALK) protein is a 200kDa transmembrane receptor tyrosine kinase. Its expression is restricted to a few scattered cells in the nervous system (some glial cells and neurons, and a few endothelial cells and pericytes). The hybrid gene, NPM-ALK, created by the t(2;5)(p23;q35) chromosomal translocation encodes part of the nucleolar phosphoprotein, nucleophosmin (NPM), joined to the entire cytoplasmic portion of the anaplastic lymphoma kinase (ALK) receptor tyrosine kinase. As a consequence, the ALK gene comes under the control of the NPM promoter, which induces a permanent and ubiquitous transcription of the NPM-ALK hybrid gene, resulting in the production of a 80kDa NPM-ALK chimeric protein. This translocation is found in anaplastic large cell lymphomas (ALCL). Reportedly, expression of ALK indicates a better prognosis. Approximately 5%-10% of non-small cell lung carcinomas also express ALK protein producing a cytoplasmic staining pattern. This MAb also reacts with blood vessels that serves as an internal positive control.

Supplied As: Tissue culture supernatant with 0.2% BSA and 15mM sodium azide.



Left: Formalin-fixed, paraffin-embedded anaplastic large cell lymphoma stained with anti-ALK antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic stain of lymphoma cells

Cat. #Z2383 (1.0 ml)