BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ALK (Anaplastic Lymphoma Kinase) / CD246 Monoclonal Antibody

Catalog Number: M00301

About ALK

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 monoclonal antibody also reacts with blood vessels that serves as an internal positive control.

Overview

Product Name	Anti-ALK (Anaplastic Lymphoma Kinase) / CD246 Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-ALK (Anaplastic Lymphoma Kinase) / CD246 Monoclonal Antibody (Catalog # M00301). Tested in Flow Cytometry, IF, WB applications. This antibody reacts with Human.
Conjugate	Biotin
Application	Flow Cytometry, IF, WB
Clonality	Monoclonal Clone: ALK/1503
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	Q9UM73

Technical Details

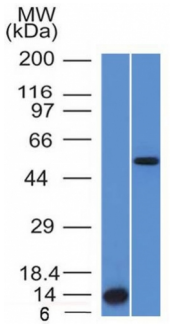
Immunogen	Recombinant human ALK protein fragment (aa1360-1460)
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Isotype	IgG1, kappa
Form	Liquid

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Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Flow Cytometry (0.5-1ug/million cells) Immunofluorescence (0.5-1ug/ml) Western Blotting (0.5-1ug/ml) Optimal dilution for a specific application should be determined.

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Anti-ALK (Anaplastic Lymphoma Kinase) / CD246 Monoclonal Antibody (M00301) Images



Western Blot Analysis (A) Recombinant Protein (B) HepG2 Cell lysate Using Anti-ALK-1 Monoclonal Antibody (ALK/1503).

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