

## **Human ALK/CD246 Antibody**

Monoclonal Mouse IgG<sub>2A</sub> Clone # 383603 Catalog Number: MAB42101

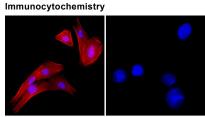
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ALK/CD246 in direct ELISAs.
Source	Monoclonal Mouse IgG <sub>2A</sub> Clone # 383603
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ALK/CD246 Val19-Ser1038 Accession # Q0UM73
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 μg/mL	See Below

## DATA



I-SY5Y MCF-

ALK/CD246 in SH-SY5Y Human Cell Line. ALK/CD246 was detected in immersion fixed SH-SY5Y human neuroblastoma cell line (left panel: positive staining) and MCF-7 human breast cancer cell line (right panel; negative staining) using Mouse Anti-Human ALK/CD246 Monoclonal Antibody (Catalog # MAB42101) at 8 μg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution	

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Anaplastic Lymphoma Kinase (ALK), also known as CD246, is a 220 kDa transmembrane glycoprotein that is primarily expressed in the developing nervous system. ALK contains one LDLR class A domain, two MAM domains, and a cytoplasmic kinase domain. Chromosomal translocation involving ALK and the nucleolar NPM protein result in a cytoplasmic fusion protein that exists as a dimer. The kinase domain in NPM-ALK is constitutively active and participates in cellular transformation. ALK translocations are found in a variety of tumors. Within the extracellular domain, human and mouse ALK share 88% amino acid sequence identity.

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