

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ALK/CD246 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 383625
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human ALK/CD246 Val19-Ser1038 Accession # Q9UM73
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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