Human MLKL Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 954702

Catalog Number: FAB9187G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MLKL when phosphorylated at T357.
Source	Monoclonal Mouse IgG_{2A} Clone # 954702
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human MLKL T357 site Accession # Q8NB16
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.*

Immunohistochemistry	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

Mixed Lineage Kinase Domain-Like (MLKL) is a 471 amino acid member of the protein kinase superfamily, but lacks several amino acid residues necessary for kinase activity. Phosphorylation of MLKL at T357 and S358 by receptor-interacting protein 3 (RIP3) causes trimerization and translocation of MLKL from the cytosol to the plasma membrane, where it mediates TNF-alpha induced necroptosis through membrane degradation and calcium influx. Low expression of MLKL has been found to be correlated with poor prognosis in cervical squamous cell carcinoma, pancreatic cancer, and ovarian cancer. Conversely, high expression of RIPK3 and MLKL in esophageal and colon cancer is associated with poor overall survival, possibly by promoting inflammatory cytokine production, sustaining tumor growth.

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