

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.