ARG43709
anti-MLKL phospho (Ser358) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MLKL phospho (Ser358)
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MLKL
Species	Human
Immunogen	Phosphospecific peptide around Ser358 of Human MLKL.
Conjugation	Un-conjugated
Alternate Names	Mixed lineage kinase domain-like protein; hMLKL

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note: Based on the user's reply this antibody might be used for ICC/IF staining, but we have not tested it.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Human gastric cancer

Observed Size: ~ 55 kDa

Properties

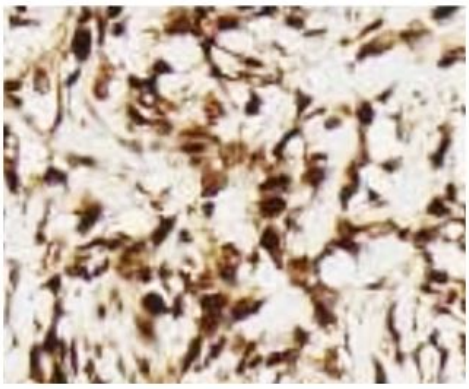
Form	Liquid
Purification	Affinity purified via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MLKL
Gene Full Name	mixed lineage kinase domain-like
Background	This gene belongs to the protein kinase superfamily. The encoded protein contains a protein kinase-like domain; however, is thought to be inactive because it lacks several residues required for activity. This protein plays a critical role in tumor necrosis factor (TNF)-induced necroptosis, a programmed cell death process, via interaction with receptor-interacting protein 3 (RIP3), which is a key signaling molecule in necroptosis pathway. Inhibitor studies and knockdown of this gene inhibited TNF-induced necrosis. High levels of this protein and RIP3 are associated with inflammatory bowel disease in children. Alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Sep 2015]
Function	Pseudokinase that plays a key role in TNF-induced necroptosis, a programmed cell death process. Activated following phosphorylation by RIPK3, leading to homotrimerization, localization to the plasma membrane and execution of programmed necrosis characterized by calcium influx and plasma membrane damage. Does not have protein kinase activity. [UniProt]
Highlight	Related products: MLKL antibodies; MLKL Duos / Panels; Anti-Rabbit IgG secondary antibodies; Related news: RIP1 activation and pathogenesis of NASH Ripoptosome & Necrosome antibody panels are launched
Calculated Mw	54 kDa
PTM	Phosphorylation by RIPK3 induces a conformational switch that is required for necroptosis. It also induces homotrimerization and localization to the plasma membrane. [UniProt]
Cellular Localization	Cytoplasm. Cell membrane. Note=Localizes to the cytoplasm and translocates to the plasma membrane on necroptosis induction. [UniProt]

Images



ARG43709 anti-MLKL phospho (Ser358) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer stained with ARG43709 anti-MLKL phospho (Ser358) antibody at 1:100 dilution at RT for 90 min. Antigen retrieval: Citrate buffer (pH 6.0).