Product Datasheet

MLC2 (Phospho-Tyr118) Antibody

Catalog No: #11589

Package Size: #11589-1 50ul #11589-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

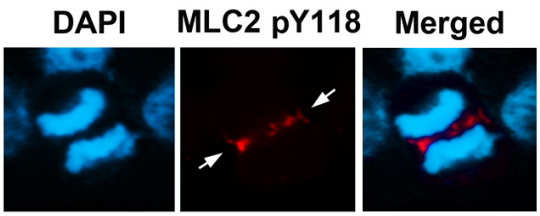
Product Name	MLC2 (Phospho-Tyr118) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of MLC2 only when phosphorylated at tyrosine 118.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 118 (A-D-Y(p)-V-R) derived from Human MLC2.
Target Name	MLC2
Modification	Phospho
Other Names	MLC2;B MRLC1; MYRL2
Accession No.	Swiss-Prot#: P10916NCBI Gene ID: 4633NCBI mRNA#: NM_000432.3. . NCBI Protein#: NP_000423.2.
Uniprot	P10916
GeneID	4633;
SDS-PAGE MW	20kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

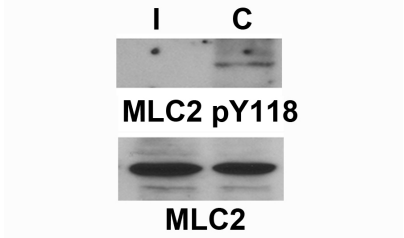
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Immunofluorescence staining of methanol-fixed U87 cells using MLC2 (Phospho-Tyr118) Antibody #11589.



U87 cells were synchronized in I (interphase) and C (Cytokinesis) respectively, then were harvested for immunoblotting.

Background

Myosin regulatory subunit that plays an important role in regulation of both smooth muscle and nonmuscle cell contractile activity via its phosphorylation. Implicated in cytokinesis, receptor capping, and cell locomotion.

1) Xia, Y. et al. c-Jun downregulation by HDAC3-dependent transcriptional repression promotes osmotic stress-induced cell apoptosis. Mol. Cell 25, 219–232 (2007).

2)Vander Heiden, M. G. et al. Evidence for an alternative glycolytic pathway in rapidly proliferating cells. Science 329, 1492–1499 (2010).

3) Fang, D. et al. Phosphorylation of beta-catenin by AKT promotes beta-catenin transcriptional activity. J. Biol. Chem. 282, 11221–11229 (2007).

Note: This product is for in vitro research use only