

Myosin Light Chain 2 (Phospho-Ser19) Antibody

Catalog No: #11114

Package Size: #11114-1 50ul #11114-2 100ul

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Description

Product Name	Myosin Light Chain 2 (Phospho-Ser19) 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 chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Myosin Light Chain 2 only when phosphorylated at serine 19.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 19 (A-T-S(p)-N-V) derived from Human Myosin Light Chain 2.
Target Name	Myosin Light Chain 2
Modification	Phospho
Other Names	MLC-2a; MLC2a; MLRA; MYL7; MYLC2A
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

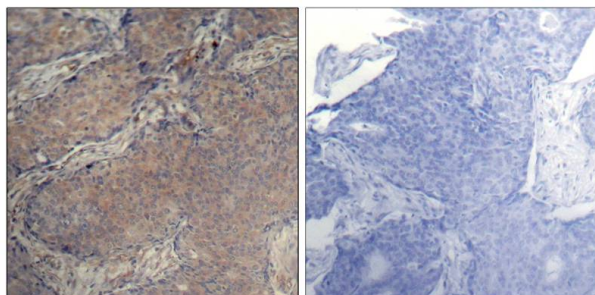
Application Details

Predicted MW: 18kd

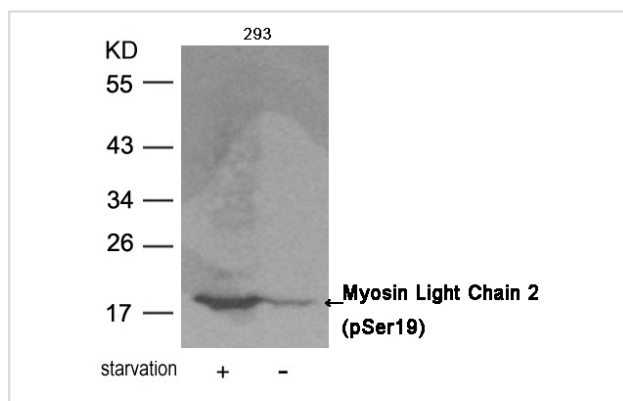
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Myosin Light Chain 2 (Phospho-Ser19) Antibody #11114 (left) or the same antibody preincubated with blocking peptide (right).



Western blot analysis of extracts from 293 cells untreated or treated with starvation using Myosin Light Chain 2 (Phospho-Ser19) Antibody #11114.

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

Janiak A, et al. (2006) Mol Biol Cell. Apr; 17(4): 1606-1619.

Croft DR, et al. (2006) Mol Cell Biol. 2 Jun; 26(12): 4612-4627

Li Z, et al. (2006) Mol Cell Biol. Jun; 26(11): 4240-4256

Published Papers

el at., FOXD3 confers chemo-sensitivity in ovarian cancer through a miR-335/DAAM1/myosin II axis-dependent mechanismIn J Ovarian ResOn2023 Jan 10by Shufen Wang?1,?Yan Ma? et al..PMID:36627652, , (2023)

[PMID:36627652](#)

el at., Gastrodin attenuates angiotensin II-induced vascular contraction and MLCK/p-MLC2 pathway activationIn Pharm BiolOn2023 Decby Zhi Guo , Xuan Yang et al..PMID:37211627, , (2023)

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el at., Tetramethylpyrazine Suppresses the Enhanced Ca²⁺ Sensitivity through Inhibiting the Expression of RhoA-ROCK in Artery of Simulated Weightlessness Rats., , (2022)

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el at., Phosphorylated myosin light chain 2 (p-MLC2) as a molecular marker of antemortem coronary artery spasm.In Med Sci Monit on 2016 Sep 19 by Liliang Li, Yuhua Li et al..PMID: 27643564, , (2016)

[PMID:27643564](#)

el at., TLR-mediated secretion of endoplasmic reticulum aminopeptidase 1 from macrophages.In J Immunol on 2014 May 1 by Yoshikuni Goto, Kenji Ogawa et al..PMID:24688025, , (2014)

[PMID:24688025](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.