

Anti-Myosin Light Chain (Ser-19), Phosphospecific Antibody

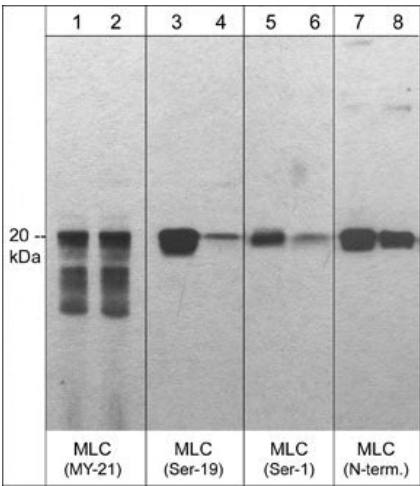


Product Details

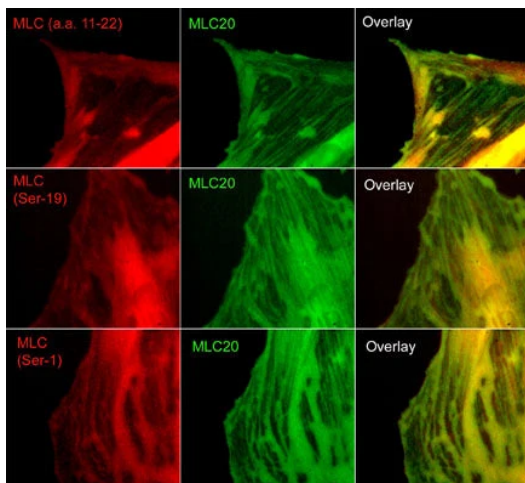
Available Variants	100 µL (SKU:MP4221)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	MYL12A
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100
Species Reactivity	Chicken, Human, Mouse, Rat
Immunogen	Phospho-MLC (Ser-19) synthetic peptide (coupled to KLH) corresponds to amino acid residues surrounding Ser-19 in human myosin regulatory light chain 12A (Myl12A). This peptide sequence is highly conserved in human, rat, mouse, chicken, and zebrafish Myl12A, and in other smooth muscle and non-muscle MLCs.
Specificity	This antibody was cross-adsorbed to MLC (a.a. 11-22) then affinity purified using phospho-MLC (Ser-19) peptide (without carrier). The antibody detects a 20 kDa* band corresponding to the molecular weight of myosin light chain in human A431 treated with EGF and in mouse C2C12 treated with Calyculin A. This reactivity is not observed after lambda phosphatase treatment of MLC.
Molecular Weight	20

Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	<u>P19105</u>
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-19

Product Images



Western blot analysis of C2C12 cells untreated (lanes 1, 3, 5, & 7) or treated with Lambda phosphatase (lanes 2, 4, 6, & 8). The blots were probed with monoclonal anti-MLC20 (clone MY-21) (lanes 1 & 2), polyclonal anti-MLC (Ser-19) phosho-specific (lanes 3 & 4), anti-MLC (Ser-1) phosho-specific (lanes 5 & 6), or anti-MLC (a.a. 11-22) (lanes 7 & 8).



Immunocytochemical labeling of phosphorylated MLC in paraformaldehyde fixed A7r5 cells. The cells were dual-labeled with anti-MLC (MM3441; middle) and anti-MLC (MP4201; top left), anti-MLC (Ser-19) (MP4221; middle left) and anti-MLC (Ser-1) (MP3461; bottom left). Goat anti-Mouse DyLight® 488 and Goat anti-Rabbit DyLight® 594 were used for detection of primary antibodies. The overlay of staining patterns are shown to the right.

Product Page URL: www.antibodiesinc.com/products/anti-myosin-light-chain-ser-19-phosphospecific-antibody-mp4221



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