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## phospho-MRCL3 (Thr18 + Ser19) Antibody Blocking Peptide

Catalog Number:	bs-17750P
Activity:	Not tested
Purification:	HPLC
Storage:	Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Myosin is a highly conserved, ubiquitously expressed protein that interacts with Actin to
	generate the force for cellular movements. Conventional myosins are hexameric proteins
	consisting of two heavy chain subunits, a pair of non-phosphorylatable light chain subunits
	and a pair of phosphorylatable light chain subunits. Three general classes of myosin have
	been cloned: smooth muscle myosins, striated muscle myosins and non-muscle myosins.
	Myosin regulatory light chains, including MRCL3 (also known as MRLC3 or MLCB), MRLC2
	(also known as MLC-B) and MYL9 (also known as LC20, MLC2, MRLC1 or MYRL2), regulate
	contraction in smooth muscle and non-muscle cells via phosphorylation by myosin light
	chain kinase (MLCK). Phosphorylation of myosin regulatory light chains, catalyzed by MLCK $% \mathcal{M}$
	in the presence of calcium and calmodulin, increases the Actin-activated myosin ATPase
	activity, thereby regulating the contractile activity. Myosin light chain is also located in
	striated skeletal muscle, where its function remains undefined.