Cytoskeletal Marker Antibod Sampler Kit	У			Cell Signaling тесниогоду <sup>®</sup>
Store			Orders:	877-616-CELL (2355) orders@cellsignal.com
1 Kit (6 x 20 microliters)			Support:	877-678-TECH (8324)
			Web:	info@cellsignal.com cellsignal.com
#		3 Tras	k Lane   Danvers	Massachusetts   01923   USA
For Research Use Only. Not for Use in Diagnostic Pro	cedures.			
Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source

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Desmin (D93F5) XP <sup>®</sup> Rabbit mAb	5332	20 µl	53 kDa	Rabbit IgG
Keratin 17 (D73C7) Rabbit mAb	4543	20 µl	48 kDa	Rabbit IgG
Pan-Keratin (C11) Mouse mAb	4545	20 µl	46-58 kDa	Mouse IgG1
β-Tubulin (9F3) Rabbit mAb	2128	20 µl	55 kDa	Rabbit IgG
Vimentin (D21H3) XP <sup>®</sup> Rabbit mAb	5741	20 µl	57 kDa	Rabbit IgG
β-Actin (D6A8) Rabbit mAb	8457	20 µl	45 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Cytoskeletal Marker Antibody Sampler Kit provides an economical means to evaluate the presence and status of select cytoskeleton associated proteins. The kit provides enough primary antibodies to perform two western blots per primary antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	The cytoskeleton consists of three different types of cystosolic fibers: microtubules, microfilaments (actin) and intermediate filaments. Actin, a ubiquitous eukaryotic protein, is the major component of the cytoskeleton. At least six isoforms are known in mammals. Nonmuscle $\beta$ - and y-actin, also known as cytoplasmic actin, are predominantly expressed in nonmuscle cells, controlling cell structure and motility (1). Major types of intermediate filaments are distinguished in part by the tissue in which they are expressed, for example; cytokeratins (epithelial cells), vimentin (mesenchyme origin), and desmin (skeletal, visceral and certain vascular smooth muscle cells) (2). Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form intermediate filaments (3). Research studies have demonstrated that vimentin is present in sarcomas, but not carcinomas, and its expression is examined relative to other markers in order to distinguish between the two forms of neoplasm (4). Desmin is a myogenic marker expressed in early development that forms a network of filaments that extends across the microtubule building block (6).
Background	1. Herman, I.M. (1993) <i>Curr Opin Cell Biol</i> 5, 48-55.
References	2. Eng, L.F. et al. (2000) Neurochem Res 25, 1439-51.
	3. Moll, R. et al. (1982) <i>Cell</i> 31, 11-24. 4. Leader, M. et al. (1987) <i>Histopathology</i> 11, 63-72.
	5. Li, Z. et al. (1996) <i>Dev Biol</i> 175, 362-6.
	6. Westermann, S. and Weber, K. (2003) Nat Rev Mol Cell Biol 4, 938-47.
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