

Actin Reorganization Antibody Sampler Kit

Cat# AK0107

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Ubiquitous actin protein comprises the major structural component of the eukaryotic cytoskeleton. The formation and continual reorganization of the actin cytoskeleton is a key step in many biological processes, including cell motility, cytokinesis, endocytosis, embryonic development, tissue regeneration and the stress response. The small protein cofilin is one of a conserved family of actin-binding proteins that promote actin filament regeneration by severing preexisting filaments. Phosphorylation of cofilin at Ser3 by LIMK or TESK inhibits cofilin severing activity. Ezrin, radixin, and moesin (ERM) proteins function as linker proteins and signal transducers between the plasma membrane and actin cytoskeleton. These proteins are involved in cell adhesion, membrane ruffling, and microvilli formation. Interactive cytosolic ERM proteins exist as monomers or dimers that form both intra- and intermolecular associations through their amino- and carboxy-terminal domains. Phosphorylation at carboxy-terminal threonine residues (Thr567 of ezrin, radixin at Thr564 and Thr558 of moesin) may alter protein conformation and disrupt these protein associations and result in ERM protein activation. Vasodilator-stimulated phosphoprotein (VASP) is an adaptor protein that links the cytoskeleton with signal transduction pathways to act in fibroblast migration, platelet activation and axon guidance. Three phosphorylation sites (Ser157, Ser239, and Thr278) have been identified, with phosphorylation of Ser239 by PKG serving as a marker for nitric oxide and cGMP signaling. VASP Ser157 can act as a substrate for both PKA and PKC. Active VASP appears to promote actin polymerization by restricting actin filament capping, with PKA phosphorylation inhibiting this anti-capping activity.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340747	CFL1 Polyclonal Antibody	20µL	WB	Human	Rabbit
A340210	Phospho-CFL1 (Ser3) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340515	EZR Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340309	Phospho-EZR (Tyr146) Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A340596	Moesin/Ezrin/Radixin Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit

A340696	VASP Polyclonal Antibody	20μL	WB, IHC, IF, ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340291	Phospho-VASP (Ser157) Polyclonal Antibody	20μL	WB, IHC, ELISA	Human, Mouse,R at, Monkey	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.