

Coronin-1B Phospho-Regulation Antibody Sampler Kit

Catalog # CK6180

Kit Components:

Catalog#	Description	Type	Size	Applications	Species Reactivity	MW (kDa)
CP2621	Coronin-1B (Ser-2), phospho-specific	Rabbit pAb	50 µl	WB, E, ICC	H, R, M	60
CP2581	Coronin-1B (C-terminus)	Rabbit pAb	50 µl	WB, E, ICC	H, R, M	60
CX2625	phospho-Coronin-1B (Ser-2)	Peptide	50µg	AB, E		
CX2585	Coronin-1B (C-terminus)	Peptide	50µg	AB, E		
RS3251	Anti-Rabbit Ig Light-Chain Specific:HRP	Mouse mAb	100 µl	WB, E		

Applications: WB = Western blot, E = ELISA, ICC = Immunocytochemistry, AB = Antibody blocking. Species: H = Human, R = Rat, M = Mouse.

Kit Summary:

The coronin-1B phospho-regulation antibody sampler kit can be used to detect the level of phosphorylation of coronin-1B (Ser-2) relative to the total expression level of coronin-1B. The kit also includes peptides for antibody blocking experiments and a secondary reagent for antibody detection.

Buffers and Storage:

Rabbit polyclonal affinity-purified antibodies are supplied in phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

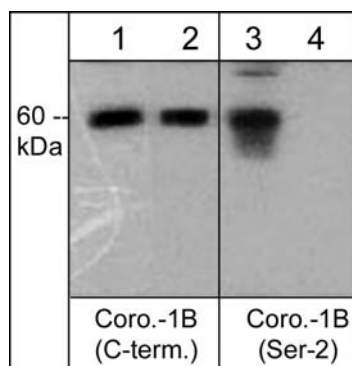
Blocking Peptides are supplied in phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Background:

Coronins are highly-conserved F-actin binding proteins that play important roles in lamellipodial protrusion during various types of cell motility. In yeast, coronins regulate cytoskeletal changes through inhibition of Arp2/3 complex. Human coronins have been classified in three subgroups: type I (coronin-1A, -1B, -1C), type II (coronin-2A, -2B), and type III (coronin-7). These coronins have at least one large β -propeller region that mediates protein-protein interactions and type I and II coronins have coiled-coil regions involved in oligomerization. Coronin-1B is ubiquitously expressed and localizes to the leading edge of cell protrusions in migrating fibroblasts. Both Coronin-1B and Coronin-1A interaction with Arp2/3 complex may be regulated by phosphorylation. PKC phosphorylates the N-terminus at Ser-2, and this phosphorylation reduces interactions with Arp2/3 leading to diminished cell motility.

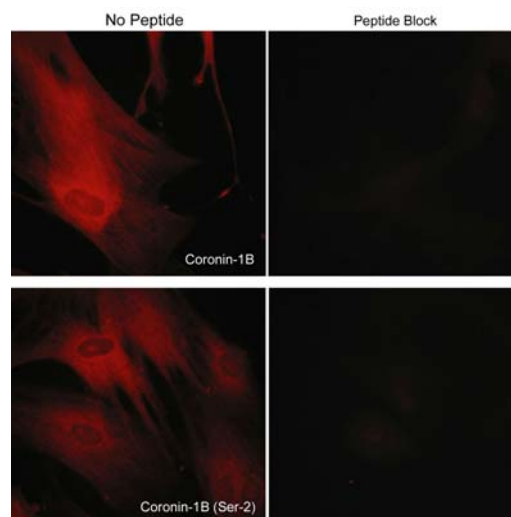
References:

Uetrecht, A.C. & Bear, J.E. (2006) Trends Cell Biol. 16(8):421.
Cai, L. et al. (2007) Cell 128:915.
Fogor, N. et al. (2006) Science 313:839.



Western blot analysis of human A431 cells treated with Calyculin A (100 nM) for 30 min (lanes 1 & 3) before treatment with lambda phosphatase (lanes 2 & 4). The blots were probed with anti-Coronin-1B (C-terminal region) (lanes 1 & 2) or anti-Coronin-1B (Ser-2) (lanes 3 & 4).

Immunocytochemical labeling of coronin-1B in rabbit spleen fibroblasts treated with Calyculin A. The cells were labeled with rabbit polyclonal Coronin-1B (C-terminus) or Coronin-1B (Ser-2) antibodies, then detected using appropriate secondary antibodies conjugated to Cy3. The antibodies were used in the absence (left) or presence (right) of their respective blocking peptide (CX2585 or CX2625).



FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

www.ecmbiosciences.com
telephone: 859-879-2075
toll-free: 1-800-859-8202
info@ecmbiosciences.com

ECMBiosciences