

Coronin-1B (Ser-2), phospho-specific

Cat. # CP2621

Host Rabbit Polyclonal

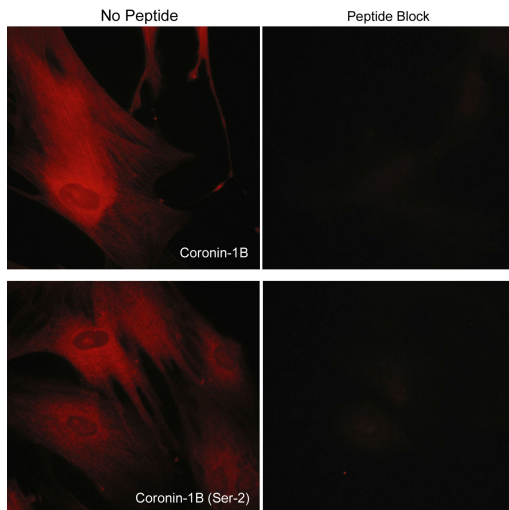
Size 100 μ l

Background:

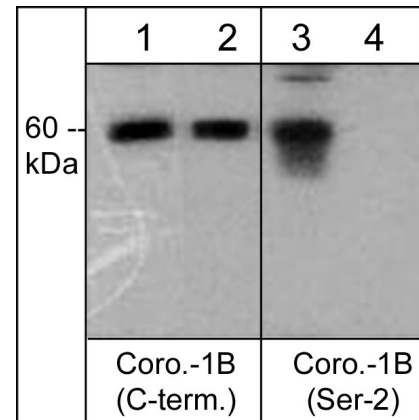
Coronins are highly-conserved F-actin binding proteins that play important roles in lamellipodial protrusion during various types of cell motility. In yeast, coronins regulate cytoskeletal changes through inhibition of Arp2/3 complex. Human coronins have been classified in three subgroups type I (coronin-1A, -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

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



Immunocytochemical labeling of coronin-1B in rabbit spleen fibroblasts treated with Calyculin A. The cells were labeled with rabbit polyclonal Coronin-1B (C-terminus) and 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).



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).

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Cat. # CP2621
Host Rabbit Polyclonal
Size 100 µl

Immunogen:

Coronin-1B (Ser-2) synthetic peptide (coupled to carrier protein) corresponds to amino acids surrounding serine 2 in human coronin-1B. This sequence has high homology to the conserved site in rat and mouse coronin-1B and in coronin-1A. However, this sequence has low homology to the conserved region in other coronins.

Buffer and Storage:

Rabbit polyclonal, affinity-purified antibody is supplied in 100 µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Do not aliquot. Stable for 1 year.

Applications:

WB 1:1000
ELISA 1:2000
ICC 1:100

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

This antibody was affinity purified using phospho-Coronin-1B (Ser-2) peptide (without carrier). The antibody detects a 60 kDa* band corresponding to Coronin-1B on SDS-PAGE immunoblots of human A431 or HeLa cells treated with Calyculin A. This band is not observed in control cells and the band observed in Calyculin A-treated cells can be removed with lambda phosphatase treatment.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

CP2581 Coronin-1B (C-terminus) Rabbit Polyclonal
WP1771 WAVE (Tyr-125), phospho-specific Rabbit Polyclonal
WP1821 WAVE (Tyr-150), phospho-specific [Conserved site] Rabbit
WP2001 N-WASP Rabbit Polyclonal
AP1671 Actin (Tyr-53), phospho-specific Rabbit Polyclonal
CK6180 Coronin-1B Phospho-Regulation Antibody Sampler Kit

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