

# Coronin-1B (C-terminus)

Cat. # CP2581

Host Rabbit Polyclonal

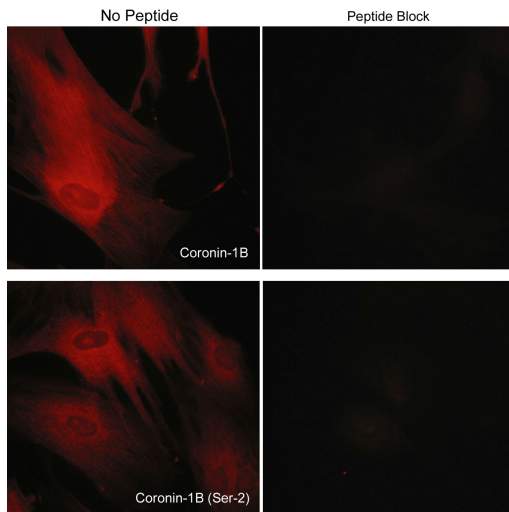
Size 100 µl

## Background:

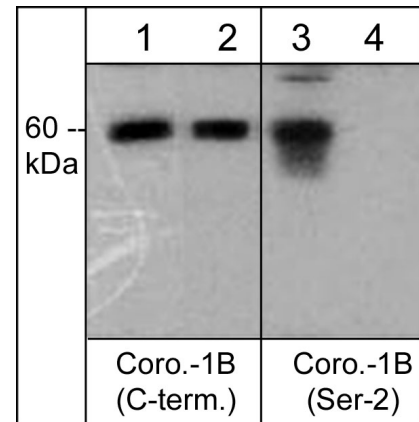
Coronins are highly-conserved F-actin binding proteins that play important roles in lamellipodial protrusion during various types of cell motility. In yeast, coronins regulate cytoskeletal changes through inhibition of Arp2/3 complex. Human coronins have been classified in three subgroups type I (coronin-1A, -1B, -1C), type II (coronin-2A, -2B), and type III (coronin-7). These coronins have at least one large  $\beta$ -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) and anti-Coronin-1B (Ser-2) (lanes 3 & 4).

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**ECM**Biosciences

# Coronin-1B (C-terminus)

**Cat. #** CP2581  
**Host** Rabbit Polyclonal  
**Size** 100 µl

## **Immunogen:**

Coronin-1B (C-terminus) synthetic peptide (coupled to carrier protein) corresponds to amino acids at the C-terminus of human coronin-1B. This sequence has high homology to the conserved site in rat and mouse coronin-1B, and less than 50% homology to similar regions 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 1 hour at room temperature.

## **Specificity:**

This antibody was affinity purified using Coronin-1B (C-terminus) peptide (without carrier). The antibody detects a 60 kDa\* band corresponding to Coronin-1B on SDS-PAGE immunoblots of human A431 and HeLa, mouse brain, and rabbit spleen fibroblasts.

\*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:**

CP2621 Coronin-1B (Ser-2), phospho-specific Rabbit Polyclonal  
AM2021 Actin (C-terminal region) Mouse Monoclonal  
WP1731 WAVE1 (N-terminal Region) Rabbit Polyclonal  
WP1791 WAVE2 (Central Region) Rabbit Polyclonal  
WP2001 N-WASP Rabbit Polyclonal  
CK6180 Coronin-1B Phospho-Regulation Antibody Sampler Kit

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