

phospho-Coronin-1B (Ser-2) Peptide

Cat. # CX2625

Size 50 µg

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.

Peptide Sequence:

Coronin-1B (Ser-2) synthetic peptide 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 coronin-1A. However, this sequence has low homology to the conserved region in other coronins.

Buffer and Storage:

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide.
Store at -20°C. Stable for 1 year.

Applications:

Blocking 1:1000

ELISA 50 ng/well

End user should determine optimal concentration dependent on the concentration of the antibody.
Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.
ELISA established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

Specificity:

This peptide is specifically recognized by Coronin-1B (Ser-2) phospho-specific antibody (CP2621) in ELISA, and has been shown to block the reactivity of CP2621 in Western blot and is recommended for blocking in immunocytochemistry.

Related Products:

CP2581 Coronin-1B (C-terminus) Rabbit Polyclonal
CP2621 Coronin-1B (Ser-2), phospho-specific Rabbit Polyclonal
CX2585 Coronin-1B (C-terminus) Peptide

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