Revision 1

#65356 Store at +4C

Coronin 1A (D6K5B) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M	Endogenous	Rabbit IgG	#P31146	11151

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity / Sensitivity

Coronin 1A (D6K5B) XP® Rabbit mAb (Alexa Fluor® 647 Conjugate) recognizes endogenous levels of total coronin 1A protein. Based on the sequence of the immunogenic peptide, this antibody is not expected to cross-react with other coronin protein family members.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val200 of human coronin 1A protein.

Product Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Coronin 1A (D6K5B) XP® Rabbit mAb #92904.

Background

The coronin family of actin-binding proteins regulates a variety of cellular functions, including migration, phagocytosis, and cytokinesis. Coronin 1A is highly expressed in lymphocytes, and is required for appropriate immune regulation in mice and humans. Researchers are investigating coronin 1A as a potential therapeutic target for autoimmune diseases and lymphoid cancers (1,2). Coronin 1A affects bone resorption through its regulation of lysosome fusion and secretion of cathepsin K in osteoclasts (3). In the nervous system, coronin 1A has been shown to regulate GPCR signaling and neurite outgrowth (4,5).

Background References

1. Punwani, D. et al. (2015) *J Clin Immunol* 35, 100-7.
2. Siegmund, K. et al. (2016) *J Biol Chem* 291, 22086-22092.
3. Ohmae, S. et al. (2017) *Sci Rep* 7, 41710.
4. Martorella, M. et al. (2017) *Vitam Horm* 104, 113-131.
5. Terzi, Y.K. et al. (2014) *Neurosci Lett* 582, 38-42.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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