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[Primary Antibody]

Rabbit Anti-CORO1B antibody

Catalog Number: SL13995R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CORO1B
Immunogen:	KLH conjugated synthetic peptide derived from human CORO1B: 301-400/489
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse)
Predicted MW.:	54kDa
Subcellular Location:	cytoplasmic
Background:	Coronins are a family of WD repeat-containing, actin-binding proteins that localize to submembraneous areas and regulate cell motility and cytoskeletal rearrangement. Coronin 1A (CORO1A, CLIPINA, CLABP, TACO, p57) can form coiled coil-mediated homotrimeric complexes that influence early phagosome formation. PKC-dependent phosphorylation of Coronin 1B (CORO1B) at Serine 2 regulates leading edge dynamics and cell motility in fibroblasts through interactions with Arp2/3 complex. Coronin 1C (CORO1C, Coronin 3, HCRNN4) is abundant in differentiating Neuro-2a cells, PC-12 cells and primary oligodendrocytes, where it is thought

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	to influence neuron morphogenesis and migration. Coronin 2A (CORO2A, CLIPINB, IR10, WDR2) is a component of the approximately 1.5-2 megadalton N-CoR (nuclear receptor corepressor) complex of 10-12 proteins, which recruits HDACs to generate repressive chromatin. Coronin 7 (CORO7, CRN7) localizes to the Golgi membrane and influences the organization of intracellular membrane compartments and vesicular trafficking. Coronin 2B (CORO2B, CLIPINC) and Coronin 6 (CORO6) are similar to other members of this family, since they possess a conserved basic N-terminal motif and 3-10 WD repeats clustered in one to two core domains. **Function:** Regulates leading edge dynamics and cell motility in fibroblasts. May be involved in cytokinesis and signal transduction. **Subcellular Location:** Cytoplasm > cytoskeleton. Localized to the leading edge in fibroblasts, as well as weakly along actin stress fibers. **Post-translational modifications:** Phosphorylation by PKC on Ser-2 regulates the interaction with the Arp2/3 complex and cell motility in fibroblasts. Phosphorylation does not seem to affect subcellular location. **Similarity:** Belongs to the WD repeat coronin family. Contains 5 WD repeats. **Database links:** **Entrez Gene:** 57175 Human **Entrez Gene:** 510128 Cow **Entrez Gene:** 23789 Mouse **Entrez Gene:** 100009415 Rabbit **Entrez Gene:** 29474 Rat **Entrez Gene:** 560168 Zebrafish Omim: 609849 Human **SwissProt:** Q9BR76 Human **SwissProt:** Q9WUM3 Mouse **SwissProt:** O89046 Rat **Unigene:** 6191 Human **Unigene:** 276859 Mouse **Unigene:** 2819 Rat

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