

# Coronin 3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58512

#### **Product Information**

**Application** IHC-P, IHC-F, IF, E

**Primary Accession** Q9ULV4

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit Clonality Polyclonal Calculated MW 53249 **Physical State** Liquid

KLH conjugated synthetic peptide derived from human Coronin 3 **Immunogen** 

381-474/474 **Epitope Specificity** 

Isotype IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. **SIMILARITY** Belongs to the WD repeat coronin family. Contains 4 WD repeats.

**SUBUNIT** Binds actin.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** Summary: This gene encodes a member of the WD repeat protein family. WD

> repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle

> progression, signal transduction, apoptosis, and gene regulation. [provided by

RefSeq, Jul 2008].

### **Additional Information**

Gene ID 23603

**Other Names** Coronin-1C, Coronin-3, hCRNN4, CORO1C {ECO:0000303 | PubMed:10828594,

ECO:0000312 | HGNC:HGNC:2254}

Target/Specificity Ubiquitous.

**Dilution** IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When **Storage** 

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

#### **Protein Information**

Name

 ${\tt CORO1C~\{ECO:0000303\,|\,PubMed:10828594,}\\$ 

ECO:0000312 | HGNC:HGNC:2254}

**Function** 

Plays a role in directed cell migration by regulating the activation and subcellular location of RAC1 (PubMed:25074804, PubMed:25925950). Increases the presence of activated RAC1 at the leading edge of migrating cells (PubMed:25074804, PubMed:25925950). Required for normal organization of the cytoskeleton, including the actin cytoskeleton, microtubules and the vimentin intermediate filaments (By similarity). Plays a role in endoplasmic reticulum- associated endosome fission: localizes to endosome membrane tubules and promotes recruitment of TMCC1, leading to recruitment of the endoplasmic reticulum to endosome tubules for fission (PubMed:30220460). Endosome membrane fission of early and late endosomes is essential to separate regions destined for lysosomal degradation from carriers to be recycled to the plasma membrane (PubMed:30220460). Required for normal cell proliferation, cell migration, and normal formation of lamellipodia (By similarity). Required for normal distribution of mitochondria within cells (By similarity).

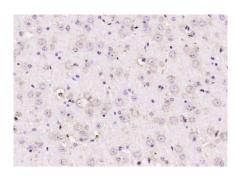
**Cellular Location** 

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium. Cell projection, ruffle membrane. Cytoplasm, cytoskeleton. Cytoplasm, cell cortex Endosome membrane. Note=All isoforms colocalize with the actin cytoskeleton in the cytosol, and especially in the cell cortex (PubMed:10828594, PubMed:19651142, PubMed:25074804) Colocalizes with F-actin at the leading edge of lamellipodia. Partially colocalizes with microtubules and vimentin intermediate filaments (PubMed:10828594, PubMed:19651142, PubMed:25074804). Localizes to endosome membrane tubules/buds (PubMed:30220460)

**Tissue Location** 

Ubiquitous..

## **Images**



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Coronin 3) Polyclonal Antibody, Unconjugated (AP58512) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.