SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FCP1 antibody

Catalog Number: SL16063R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FCP1
Immunogen:	KLH conjugated synthetic peptide derived from human FCP1: 201-300/961
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:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Rat (predicted: Human, Mouse, Pig, Sheep, Cow, Chicken, Dog, Horse)
Predicted MW.:	104kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a protein which interacts with the carboxy-terminus of the RAP74 subunit of transcription initiation factor TFIIF, and functions as a phosphatase that processively dephosphorylates the C-terminus of POLR2A (a subunit of RNA polymerase II), making it available for initiation of gene expression. Mutations in this gene are associated with congenital cataracts, facial dysmorphism and neuropathy syndrome (CCFDN). Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2011] **Function:** Processively dephosphorylates 'Ser-2' and 'Ser-5' of the heptad repeats YSPTSPS in the C-terminal domain of the largest RNA polymerase II subunit. This promotes the activity of RNA polymerase II. **Subcellular Location:** Nucleus. **Tissue Specificity:** Ubiquitously expressed. Isoform 3 is expressed in heart,

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	brain, placenta, lung, liver, skeletal muscle, kidney and placenta. **Post-translational modifications:** Phosphorylated. In the presence of TFIIF, the phosphorylated form has an increased CTD phosphatase activity. The phosphorylation is required for the physical interaction with GTF2F1. DISEASE: Defects in CTDP1 are a cause of congenital cataracts facial dysmorphism and neuropathy syndrome (CCFDN) [MIM:604168]. CCFDN is an autosomal recessive developmental disorder that occurs in an endogamous group of Vlax Roma (Gypsies). The syndrome is characterized by a complex clinical phenotype with seemingly unrelated features involving multiple organs and systems. Developmental abnormalities include congenital cataracts and microcorneae, hypomyelination of the peripheral nervous system, impaired physical growth, delayed early motor and intellectual development, facial dysmorphism and hypogonadism. Central nervous system involvement, with cerebral and spinal cord atrophy, may be the result of disrupted development with superimposed degenerative changes. Affected individuals are prone to severe rhabdomyolysis after viral infections and to serious complications related to general anesthesia (such as pulmonary edema and epileptic seizures). **Similarity:** Contains 1 BRCT domain. Contains 1 FCP1 homology domain. **Database links:** **Entrez Gene:** 9150 Human **Entrez Gene:** 67655 Mouse **Entrez Gene:** 291414 Rat **Entrez Gene:** 447713 Xenopus laevis **Entrez Gene:** 442930 Zebrafish Omim: 604927 Human **SwissProt:** Q9Y5B0 Human **SwissProt:** Q7TSG2 Mouse **Unigene:** 465490 Human **Unigene:** 312893 Mouse **Unigene:** 137952 Rat **Unigene:** 62700 Xenopus laevis **Unigene:** 133831 Zebrafish

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[VALIDATION IMAGES]

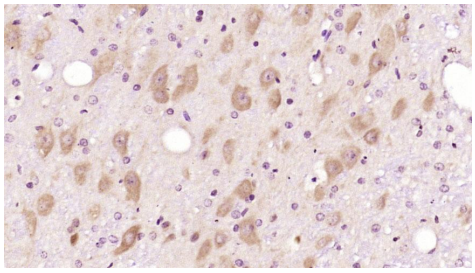


Figure 1. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FCP1) Polyclonal Antibody, Unconjugated (SL16063R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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