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CDC10 Rabbit pAb

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Catalog # AP94328

Product Information

Application	IHC-P, IHC-F, IF
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	50 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Septin 7
Epitope Specificity	201-300/437
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cleavage furrow. Midbody. Cytoplasm, cytoskeleton, cilium axoneme. Note=Distributed throughout the cytoplasm in prometaphase cells. Associated with the spindle during metaphase. Associated with the central spindle and at the cleavage furrow in anaphase cells. Detected at the midbody in telophase. Associated with actin stress fibers.
SIMILARITY	Belongs to the septin family.
SUBUNIT	Septins polymerize into heterooligomeric protein complexes that form filaments, and associate with cellular membranes, actin filaments and microtubules. GTPase activity is required for filament formation. Filaments are assembled from asymmetrical heterotrimers, composed of SEPT2, SEPT6 and SEPT7 that associate head-to-head to form a hexameric unit. Within the trimer, directly interacts with SEPT6, while interaction with SEPT2 seems indirect. In the absence of SEPT6, forms homodimers. Interacts directly with CENPE and links CENPE to septin filaments composed of SEPT2, SEPT6 and SEPT7. Interacts with SEPT5 and SEPT8. Interacts with SEPT9 and SEPT11.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein that is highly similar to the CDC10 protein of Saccharomyces cerevisiae. The protein also shares similarity with Diff 6 of Drosophila and with H5 of mouse. Each of these similar proteins, including the yeast CDC10, contains a GTP-binding motif. The yeast CDC10 protein is a structural component of the 10 nm filament which lies inside the cytoplasmic membrane and is essential for cytokinesis. This human protein functions in gliomagenesis and in the suppression of glioma cell growth, and it is required for the association of centromere-associated protein E with the kinetochore. Alternative splicing results in multiple transcript variants. Several related pseudogenes have been identified on chromosomes 5, 7, 9, 10, 11, 14, 17 and 19. [provided by RefSeq, Jul 2011].

Additional Information

Target/Specificity	Widely expressed.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When 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.

Background

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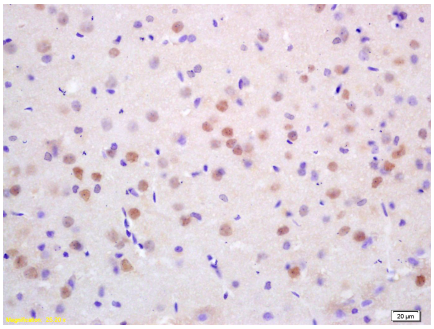
Images



Tissue/cell: Rat brain; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-CDC10/Septin 7 Polyclonal Antibody, Unconjugated(AP94328) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining