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ZNF828 Rabbit pAb

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Catalog # AP59303

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96JM3
Reactivity	Human, Rat
Predicted	Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89099
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZNF828/C13orf8
Epitope Specificity	621-720/812
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	Nucleus. Chromosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle.
SIMILARITY	Contains 1 C2H2-type zinc finger.
SUBUNIT	Interacts with MAD2L2. Interacts with POGZ, CBX1, CBX3 and CBX5.
Post-translational modifications	Phosphorylated by CDK1. Mitotic phosphorylation is required for the attachment of spindle microtubules to the kinetochore.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZNF828, is a 812 amino acid protein that contains one C2H2-type zinc finger and is localized to the cytoplasm and the nucleus. The gene encoding ZNF828 maps to chromosome 13. Comprising nearly 4% of the human genome, chromosome 13 contains around 114 million base pairs and encodes over 400 genes. Chromosome 13 houses key tumor suppressor genes, including BRCA2 and RB1, which are associated with breast cancer susceptibility and retinoblastoma, respectively. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

Additional Information

Gene ID	283489
Other Names	Chromosome alignment-maintaining phosphoprotein 1, Zinc finger protein 828, CHAMP1, C13orf8, CAMP, CHAMP, KIAA1802, ZNF828

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

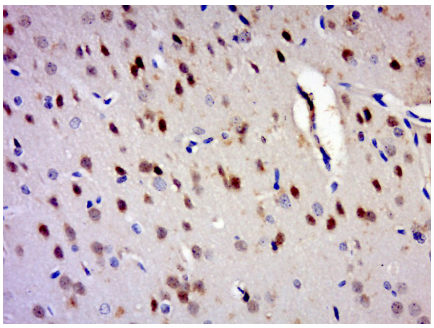
Protein Information

Name	CHAMP1
Synonyms	C13orf8, CAMP, CHAMP, KIAA1802, ZNF828
Function	Required for proper alignment of chromosomes at metaphase and their accurate segregation during mitosis. Involved in the maintenance of spindle microtubules attachment to the kinetochore during sister chromatid biorientation. May recruit CENPE and CENPF to the kinetochore.
Cellular Location	Nucleus. Chromosome. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle

Background

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZNF828, is a 812 amino acid protein that contains one C2H2-type zinc finger and is localized to the cytoplasm and the nucleus. The gene encoding ZNF828 maps to chromosome 13. Comprising nearly 4% of the human genome, chromosome 13 contains around 114 million base pairs and encodes over 400 genes. Chromosome 13 houses key tumor suppressor genes, including BRCA2 and RB1, which are associated with breast cancer susceptibility and retinoblastoma, respectively. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

Images



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 (ZNF828) Polyclonal Antibody, Unconjugated (AP59303) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.