

CLPH Antibody

Catalog # ASC11021

Product Information

Application	WB, E, IHC-P
Primary Accession	Q96KC9
Other Accession	NP_149113 , 90652863
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	43003
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CLPH antibody can be used for detection of CLPH by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL.

Additional Information

Gene ID	85438
Other Names	Calcium-binding and spermatid-specific protein 1, Testis development protein NYD-SP26, CABS1, C4orf35
Target/Specificity	C4orf35;
Reconstitution & Storage	CLPH antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	CLPH Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CABS1
Synonyms	C4orf35
Function	Calcium-binding protein (By similarity). Essential for maintaining the structural integrity of the sperm flagella (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q68FX6}. Mitochondrion inner membrane {ECO:0000250 UniProtKB:Q68FX6}. Cell projection, cilium, flagellum {ECO:0000250 UniProtKB:Q8C633} Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250 UniProtKB:Q8C633}. Note=Mostly cytoplasmic, but associated with the mitochondrial inner membrane during

the last steps of spermatid differentiation. Localizes to the principal piece of the sperm flagellum (By similarity). {ECO:0000250 | UniProtKB:Q68FX6, ECO:0000250 | UniProtKB:Q8C633}

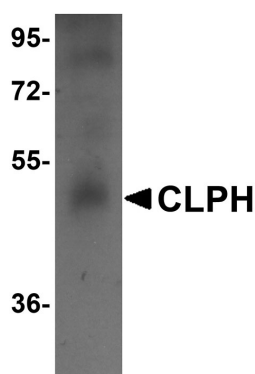
Background

CLPH Antibody: CLPH (Casein-Like phosphoprotein) is a recently discovered, evolutionarily conserved, testis-specific cytoplasmic protein expressed exclusively in postmeiotic germ cells in rat spermatogenesis. CLPH is a novel casein kinase 2-phosphorylated disordered and calcium-binding protein that displays strong variation in relative expression levels during spermatogenesis. It is frequently associated with the mitochondrial inner membrane during the last steps of spermatid differentiation and is involved in the extremely complex structural rearrangements occurring in haploid germ cells during spermiogenesis.

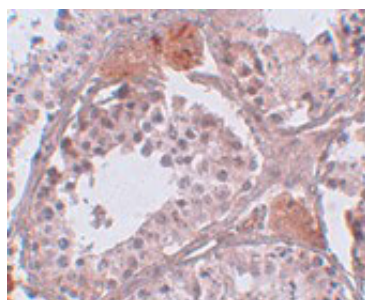
References

Calvel P, Kervarrec C, Lavigne R, et al. CLPH, a novel casein kinase 2-phosphorylated disordered protein, is specifically associated with postmeiotic germ cells in rat spermatogenesis. *J. Proteome Res.* 2009; 8:2953-65.

Images



Western blot analysis of CLPH in human testis tissue lysate with CLPH antibody at 1 μ g/mL.



Immunohistochemistry of CLPH in human testis tissue with CLPH antibody at 5 μ g/mL.

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