



CABYR Polyclonal Antibody

Catalog No	YP-Ab-05403
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	CABYR CBP86 FSP2
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	CABYR Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CABYR;Calcium binding protein 86;Cancer/testis antigen 88;CBP86;CT88; Fibrousheathin 2;Fibrousheathin II;FSP 2;FSP2;CABYR CBP86 FSP2;Calcium-binding tyrosine phosphorylation-regulated protein (Calcium-binding protein 86) (Cancer/testis antigen 88) (CT88) (Fibrousheathin II) (Fibrousheathin-2) (FSP-2) (Testis-specific calcium-bindin
Observed Band	53 kDa, 86-90 kDa
Calculated Molecular Weight	53 kDa
Cell Pathway	Cytoplasm, cytoskeleton. Cell projection, cilium, flagellum. Localized to fibrous sheath including the surface of the longitudinal columns and ribs of the principal piece of sperm flagella.; [Isoform 1]: Nucleus. Cytoplasm. Cell projection, cilium, flagellum. According to PubMed:15752768, isoform 1, isoform 3 and isoform 5 are both nuclear and cytoplasmic.; [Isoform 3]: Nucleus. Cytoplasm. Cell projection, cilium, flagellum. According to PubMed:15752768, isoform 1, isoform 3 and isoform 5 are both nuclear and cytoplasmic.; [Isoform 5]: Nucleus. Cytoplasm. Cell projection, cilium, flagellum. According to PubMed:15752768, isoform 1, isoform 3 and isoform 5 are both nuclear and cytoplasmic.
Tissue Specificity	Expressed in elongating spermatids and spermatozoa (at protein level). Isoform 1 is expressed in testis. Isoform 3 and isoform 5 are also expressed in brain, pancreas and numerous brain tumors.

Function

function:May function as a regulator of both motility- and head-associated functions such as capacitation and the acrosome reaction. Isoform 1 binds calcium in vitro. Isoform 2 and isoform 6 probably bind calcium. Isoform 3 and isoform 5 do not bind calcium in vitro. Isoform 4 probably does not bind calcium., PTM:Isoform 1 is phosphorylated on tyrosine residues during in vitro capacitation. Isoform 3 and isoform 5 are phosphorylated by GSK3B in vitro. Dephosphorylation affects its ability to bind calcium.,similarity:Contains 1 RIIa domain.,subcellular location:According to PubMed:15752768, isoform 1, isoform 3 and isoform 5 are both nuclear and cytoplasmic.,subcellular location:According to Ref.4, isoform 1, isoform 3 and isoform 5 are both nuclear and cytoplasmic., subcellular location:Localized to fibrous sheath including the surface of the longitudinal columns and ribs of the principal

Background

To reach fertilization competence, spermatozoa undergo a series of morphological and molecular maturational processes, termed capacitation, involving protein tyrosine phosphorylation and increased intracellular calcium. The protein encoded by this gene localizes to the principal piece of the sperm flagellum in association with the fibrous sheath and exhibits calcium-binding when phosphorylated during capacitation. A pseudogene on chromosome 3 has been identified for this gene. Alternatively spliced transcript variants encoding distinct protein isoforms have been found for this gene. [provided by RefSeq, Jul 2013],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images