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FUNDC2 Rabbit pAb

Catalog # AP97434

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9BWH2
Other Accession	Q9BWH2
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20676
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FUNDC2
Epitope Specificity	101-189/189
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FUN14 family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FUNDC2 is a 189 amino acid protein belonging to the FUN14 family. The gene encoding FUNDC2 maps to human chromosome Xq28. The X and Y chromosomes are the human sex chromosomes. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of an X and Y chromosome lead to normal male development while two copies of X lead to normal female development. More than one copy of the X chromosome with a Y chromosome causes Klinefelter's syndrome. A single copy of X alone leads to Turner's syndrome. More than 2 copies of the X chromosome, in the absence of a Y chromosome, is known as Triple X syndrome. Color blindness, hemophilia, and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

Additional Information

Gene ID	65991
Other Names	DC44; HCBP6; HCC3; PD03104; 4833415N24Rik; FUND2_HUMAN; FUNDC2; Cervical cancer proto-oncogene 3 protein (HCC-3); Hepatitis C virus core-binding protein 6; FUND2_MOUSE; FUN14 domain containing 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	FUNDC2 (HGNC:24925)
Synonyms	HCBP6
Function	Binds directly and specifically 1,2-Diacyl-sn-glycero-3-phospho-(1'-myo-inositol-3',4',5'-bisphosphate) (PIP3) leading to the recruitment of PIP3 to mitochondria and may play a role in the regulation of the platelet activation via AKT/GSK3B/cGMP signaling pathways (PubMed:29786068). May act as transcription factor that regulates SREBP1 (isoform SREBP-1C) expression in order to modulate triglyceride (TG) homeostasis in hepatocytes (PubMed:25855506, PubMed:29187281).
Cellular Location	Mitochondrion outer membrane; Multi-pass membrane protein. Nucleus
Tissue Location	Highly expressed in platelets (at protein level).

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