

FUNDC2 Polyclonal antibody

Catalog Number: 19832-1-AP

Basic Information

Catalog Number: 19832-1-AP	GenBank Accession Number: BC000255	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 65991	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9BWH2	
Isotype: IgG	Full Name: FUN14 domain containing 2	
Immunogen Catalog Number: AG13800	Calculated MW: 189 aa, 21 kDa	
	Observed MW: 21 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human	WB : HeLa cells, HuH-7 cells, HepG2 cells
	IHC : human stomach cancer tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

FUNDC2, or FUN14 domain-containing protein 2, is a mitochondrial outer membrane protein that plays a significant role in various cellular processes, including the regulation of cell survival, apoptosis, and metabolism. It has been implicated in the progression of several types of cancer, particularly in triple-negative breast cancer (TNBC) and liver cancer. In the context of cancer, FUNDC2 has been shown to promote tumorigenesis. It is associated with poor prognosis in hepatocellular carcinoma (HCC) and is involved in mitochondrial fragmentation by inhibiting MFN1-mediated mitochondrial fusion, which can lead to changes in cellular metabolism and energy levels. FUNDC2 also plays a role in platelet function and survival. It binds directly to phosphatidylinositol-3,4,5-trisphosphate (PIP3), which is a key lipid second messenger in cell signaling, and this interaction is crucial for the recruitment of PIP3 to mitochondria. FUNDC2 deficiency has been shown to decrease platelet aggregation and impair hemostasis in mice, highlighting its importance in platelet function.

Storage

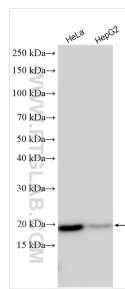
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

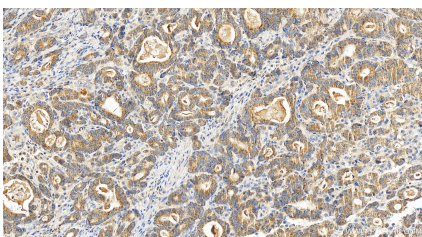
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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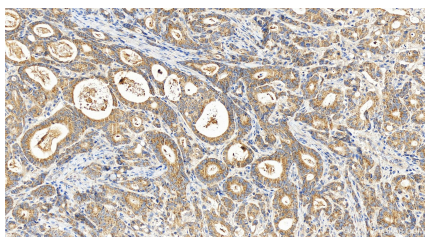
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19832-1-AP (FUNDC2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 19832-1-AP (FUNDC2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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