

For Research Use Only

ATPAF2 Monoclonal antibody

Catalog Number: 68351-1-Ig



Basic Information

Catalog Number: 68351-1-Ig	GenBank Accession Number: BC032126	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 91647	CloneNo.: 1H9A9
Source: Mouse	UNIPROT ID: Q8N5M1	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:250-1:1000
Isotype: IgG1	Full Name: ATP synthase mitochondrial F1 complex assembly factor 2	
Immunogen Catalog Number: AG29065	Calculated MW: 289 aa, 33 kDa	
	Observed MW: ~30 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, mouse, rat

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

Positive Controls:

WB : HCT 116 cells, LNCaP cells, MCF-7 cells, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells

IHC : mouse heart tissue,

Background Information

ATP synthase mitochondrial F1 complex assembly factor 2 (ATPAF2) also name as ATP12 and ATP12p, is an essential house keeping protein. ATPAF2 is an assembly factor for the F1 component of mitochondrial ATP synthase. This protein binds specifically to the F1 alpha subunit and is thought to prevent this subunit from forming nonproductive homooligomers during enzyme assembly. The calculated MW is 33 kDa, 68351-1-Ig can detect bands around 30 kDa and 50 kDa, the larger band may correspond to dimer or complex form. (PMID: 1826907, 11410595)

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

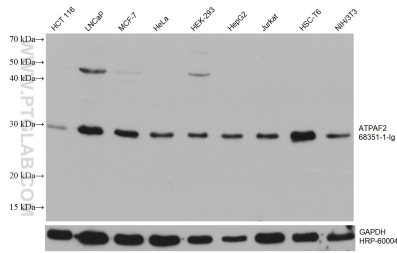
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

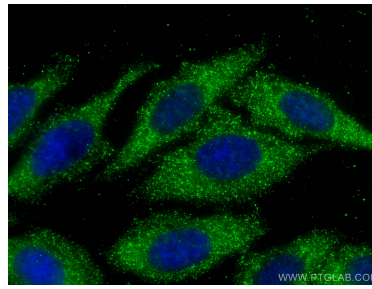
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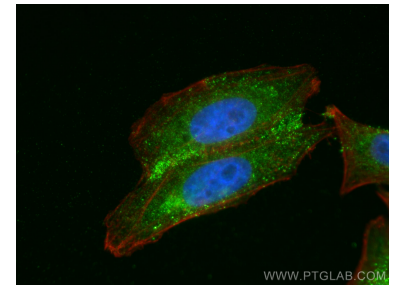
Selected Validation Data



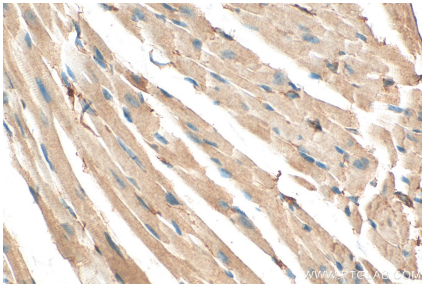
Various lysates were subjected to SDS PAGE followed by western blot with 68351-1-Ig (ATPAF2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ATPAF2 antibody (68351-1-Ig, Clone: 1H9A9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using ATPAF2 antibody (68351-1-Ig, Clone: 1H9A9) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 68351-1-Ig (ATPAF2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).