

ATPIF1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ATPIF1.

Catalog # AT1245a

Specification

ATPIF1 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, E
Primary Accession	Q9UII2
Other Accession	BC009677
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b kappa
Calculated MW	12249

ATPIF1 Antibody (monoclonal) (M01) - Additional Information

Gene ID 93974

Other Names

ATPase inhibitor, mitochondrial, Inhibitor of F(1)F(o)-ATPase, IF(1), IF1, ATPIF1, ATPI

Target/Specificity

ATPIF1 (AAH09677, 1 a.a. ~ 106 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

ATPIF1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

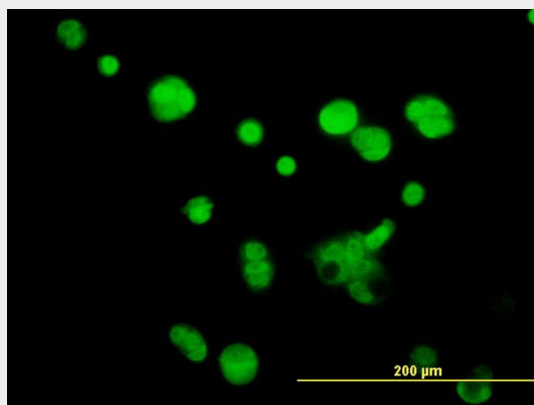
ATPIF1 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

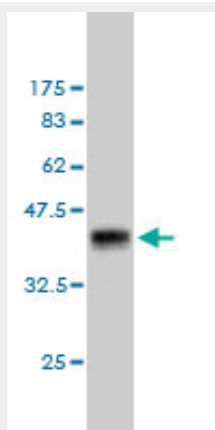
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

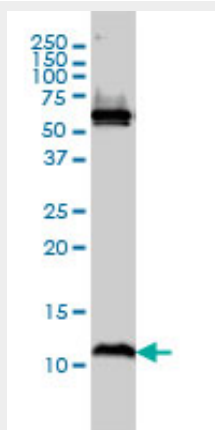
ATPIF1 Antibody (monoclonal) (M01) - Images



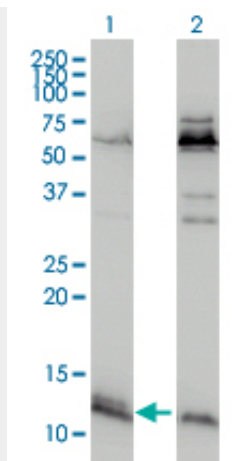
Immunofluorescence of monoclonal antibody to ATPIF1 on MCF-7 cell . [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.4 KDa) .



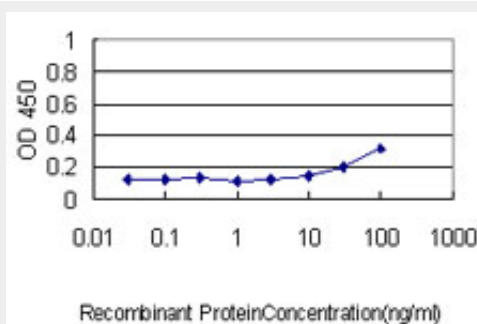
ATPIF1 monoclonal antibody (M01), clone 3E2 Western Blot analysis of ATPIF1 expression in MCF-7 ((Cat # AT1245a)



Western Blot analysis of ATPIF1 expression in transfected 293T cell line by ATPIF1 monoclonal antibody (M01), clone 3E2.

Lane 1: ATPIF1 transfected lysate(12 KDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ATPIF1 is approximately 0.3ng/ml as a capture antibody.

ATPIF1 Antibody (monoclonal) (M01) - Background

This gene encodes a mitochondrial ATPase inhibitor. Alternative splicing occurs at this locus and three transcript variants encoding distinct isoforms have been identified.

ATPIF1 Antibody (monoclonal) (M01) - References

Up-regulation of the ATPase inhibitory factor 1 (IF1) of the mitochondrial H⁺-ATP synthase in human tumors mediates the metabolic shift of cancer cells to a Warburg phenotype. S?nchez-Cenizo L, et al. J Biol Chem, 2010 Aug 13. PMID 20538613. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Mutation detection in candidate genes for benign familial infantile seizures on a novel locus. Li N, et al. Int J Neurosci, 2010 Mar. PMID 20374090. IF(1) distribution in HepG2 cells in relation to ecto-F(0)F (1)ATP synthase and calmodulin. Contessi S, et al. J Bioenerg Biomembr, 2007 Aug. PMID 17851741. Identifying leukocyte gene expression patterns associated with plasma lipid levels in human subjects. Ma J, et al. Atherosclerosis, 2007 Mar. PMID 16806233.