

# ATP5A1 Monoclonal Antibody (7H10BD4F9)

Product Details	
Size	100 µg
Species Reactivity	Bovine, Human, Mouse, Rat
Published Species	Rat, Bovine, Mouse, Human
Host/Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	7H10BD4F9
Conjugate	Unconjugated
Immunogen	Bovine Complex V
Form	Liquid
Concentration	1.0 mg/mL
Purification	IgG fraction
Storage buffer	HEPES buffered saline
Contains	0.02% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2532234

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	25 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	2 Publications
Flow Cytometry (Flow)	1 µg/ml	-
Miscellaneous PubMed (Misc)	-	1 Publication

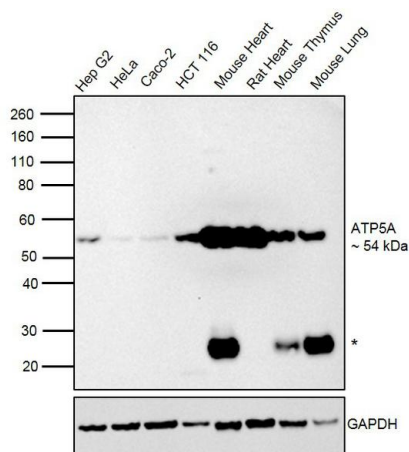
## Product Specific Information

Use Isolated mitochondria from Human, Rat, Bovine and Mouse Heart, and HepG2, Cultured Human embryonic lung-derived fibroblasts (strain MRC5), HL-60 cells for positive controls.

## Product Images For ATP5A1 Monoclonal Antibody (7H10BD4F9)

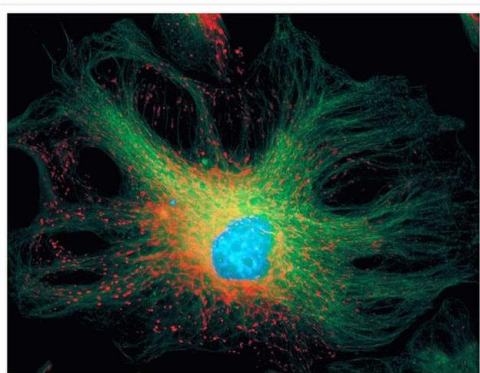
### ATP5A1 Antibody (459240)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of ATP5A was observed in Mouse Heart (Lane 5) that expresses ATP5A protein at very high levels, in comparison to, Mouse Thymus (Lane 7) that expresses ATP5A protein at low levels using Anti-ATP5A Mouse Monoclonal Antibody (Product # 459240) in Western Blot. {RE}



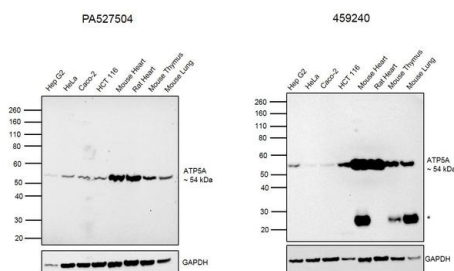
### ATP5A1 Antibody (459240) in ICC/IF

Bovine pulmonary artery endothelial cells: Mitochondria were labeled using an anti-OxPhos Complex V subunit a, mouse IgG<sub>2b</sub> monoclonal antibody (Product # 459240) pre-labeled with the Zenon® Alexa Fluor® 555 Mouse IgG<sub>2b</sub> Labeling Kit (Product # Z-25205). Tubulin was detected with an anti-α-tubulin mouse IgG<sub>2b</sub> monoclonal antibody pre-labeled with the Zenon® Alexa Fluor® 488 Mouse IgG<sub>2b</sub> Labeling Kit (Product # Z-25202), and The nucleus was stained with DAPI (Product # D1306, D3571, D21490).



### ATP5A1 Antibody (459240)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of ATP5A using ATP5A Mouse Monoclonal Antibody (Product # 459240), tested in parallel with ATP5A Rabbit Polyclonal Antibody (Product # PA5-27504), shows similar expression of ATP5A in the cell lines and tissues tested. {IAV}



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Western Blot (25)

International journal of molecular sciences

**Increased Skeletal Muscle Fiber Cross-Sectional Area, Muscle Phenotype Shift, and Altered Insulin Signaling in Rat Hindlimb Muscles in a Prenatally Androgenized Rat Model for Polycystic Ovary Syndrome.**

"459240 was used in Western Blot, Immunohistochemistry to research into whether skeletal muscle alterations in hindlimb muscles of a PNA rate model for PCOS may represent consequences of, or adaptations to, insulin resistance in this model."

Authors: DeChick A,Hetz R, Lee J, Speelman DL

**Species**  
Rat  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2020

American journal of physiology. Heart and circulatory physiology

**Effects of prolonged type 2 diabetes on mitochondrial function in cerebral blood vessels.**

"459240 was used in Western Blotting to characterise the dynamics of mitochondrial function during the progression of type 2 diabetes mellitus with regard to mitochondrial respiration, protein expression, and reactive oxygen species production."

Authors: Merdzo I,Rutkai I,Sure VNLR,Katakam PVG,Busija DW

**Species**  
Rat

**Dilution**  
1:500

**Year**  
2019

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Immunohistochemistry (3)

International journal of molecular sciences

**Increased Skeletal Muscle Fiber Cross-Sectional Area, Muscle Phenotype Shift, and Altered Insulin Signaling in Rat Hindlimb Muscles in a Prenatally Androgenized Rat Model for Polycystic Ovary Syndrome.**

"459240 was used in Western Blot, Immunohistochemistry to research into whether skeletal muscle alterations in hindlimb muscles of a PNA rate model for PCOS may represent consequences of, or adaptations to, insulin resistance in this model."

Authors: DeChick A,Hetz R, Lee J, Speelman DL

**Species**  
Rat  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2020

Scientific reports

**Regulation of vitamin D system in skeletal muscle and resident myogenic stem cell during development, maturation, and ageing.**

"459240 was used in Immunohistochemistry to investigate serum 25(OH)D3 and Ca2+ levels along with the vitamin D system in skeletal muscle and resident myogenic stem cells of male C57BL/6 mice during development, maturation, and ageing."

Authors: Srikuea R,Hirunsai M,Charoenphandhu N

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2020

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

- IHC (P) (1)
- ICC/IF (2)
- Misc (1)

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