

For Research Use Only

# Aconitase 2 Polyclonal ANTIBODY



Catalog Number: 11134-1-AP **8 Publications**

## Basic Information

<b>Catalog Number:</b> 11134-1-AP	<b>GenBank Accession Number:</b> BC014092	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 160 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 50	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> aconitase 2, mitochondrial	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 85 kDa	
<b>Immunogen Catalog Number:</b> AG1590	<b>Observed MW:</b> 85 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

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:** human skeletal muscle tissue, HeLa cells, human heart tissue, human liver tissue, mouse heart tissue

**IHC:** human lung cancer tissue, human prostate cancer tissue

**IF:** HeLa cells,

## Background Information

ACO2 (aconitase hydratase, mitochondrial) is also named as citrate hydro-lyase and belongs to the aconitase/IPM isomerase family. It plays a key function in cellular energy production, and loss of its activity has a major impact on cellular and organismal survival. Western blot shows two bands of 83 kDa and 40 kDa. The 40 kDa fragment decreases with age and oxidative stress, whereas other fragmentation products with molecular weights between 40 and 83 kDa increased with age and MnSOD (mitochondrial manganese superoxide dismutase) deficiency (PMID:12459471). Defects in ACO2 are the cause of infantile cerebellar-retinal degeneration (ICRD).

## Notable Publications

Author	Pubmed ID	Journal	Application
Chiung-Mei Chen	29160844	Int J Mol Sci	WB
Bruna Rodrigues Muys	31101765	Cancer Res	WB
N Lai	32214195	Sci Rep	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

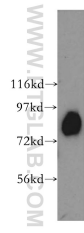
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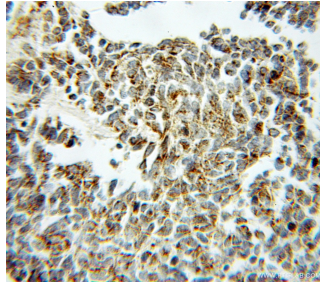
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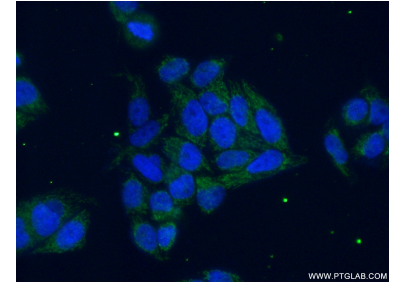
## Selected Validation Data



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 11134-1-AP (Aconitase 2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 11134-1-AP (Aconitase 2 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 11134-1-AP (Aconitase 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).