

For Research Use Only

# Aconitase 2 Polyclonal antibody, PBS Only

Catalog Number: 11134-1-PBS



## Basic Information

<b>Catalog Number:</b> 11134-1-PBS	<b>GenBank Accession Number:</b> BC014092	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 50	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99798	
<b>Isotype:</b> IgG	<b>Full Name:</b> aconitase 2, mitochondrial	
<b>Immunogen Catalog Number:</b> AG1590	<b>Calculated MW:</b> 85 kDa	
	<b>Observed MW:</b> 85 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

ACO2 (aconitate 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).

## Storage

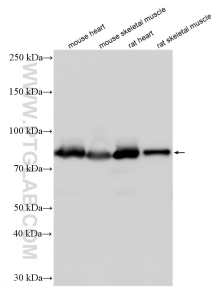
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

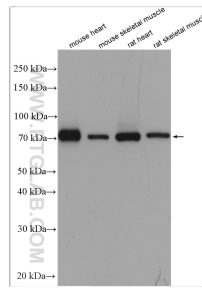
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

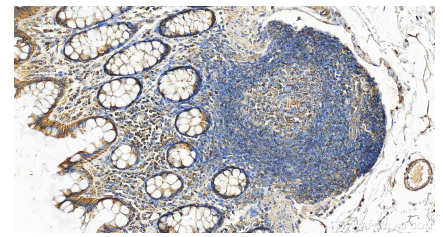
## Selected Validation Data



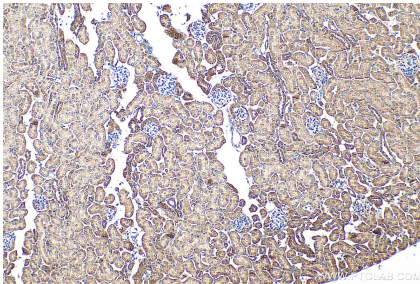
Various lysates were subjected to SDS PAGE followed by western blot with 11134-1-AP (Aconitase 2 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.



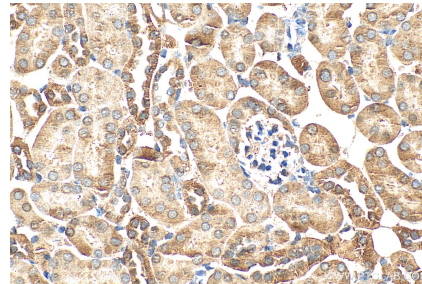
Various lysates were subjected to SDS PAGE followed by western blot with 11134-1-AP (Aconitase 2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.



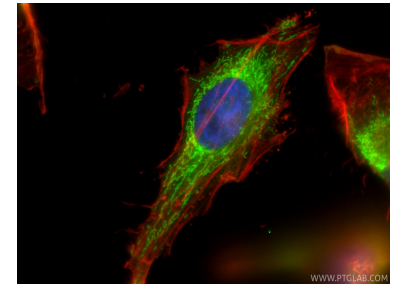
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11134-1-AP (Aconitase 2 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11134-1-AP (Aconitase 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11134-1-AP (Aconitase 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Aconitase 2 antibody (11134-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red). This data was developed using the same antibody clone with 11134-1-PBS in a different storage buffer formulation.