For Research Use Only

Aconitase 2 Monoclonal antibody

Catalog Number:67509-1-lg

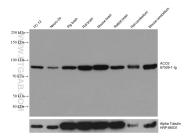


Basic Information	Catalog Number: 67509-1-lg	BC014092 Protein GeneID (NCBI): Clone Dug/ml by 50 1F1G4 y Bradford UNIPROT ID: Recon candard; Q99798 WB 1:		Purification Method: Protein G purification			
	150ul, Concentration: 1600 ug/ml by Nanodrop and 733 ug/ml by Bradford method using BSA as the standard; Source:			CloneNo.: 1F1G4 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000			
					lsotype: lgG1		
					Immunogen Catalog Number: AG17784	Observed MW: 85 kDa	
	Applications			Tested Applications: WB, IHC, FC (Intra), ELISA Species Specificity: human, mouse, rat, pig		Positive Controls: WB : PC-12 cells, pig brain tissue, rat brain tissue, mouse brain tissue, HEK-293 cells, pig cerebellum tissue, rat cerebellum tissue, mouse cerebellum tissue, Neuro-2a cells, rabbit brain tissue IHC : human liver cancer tissue,	
		Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
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 -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.					
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20° C s	0, 1					
Loui Sizes contain 0.1/0 DSA							

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)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 67509-1-Ig (ACO2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 67509-1-1g (ACO2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

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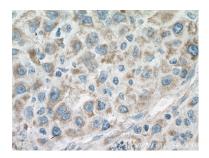
150 kDa-

100 kDa

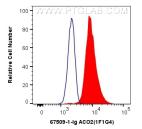
70 kDa

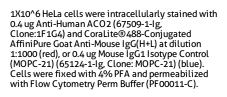
50 kD

40 kD



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 67509-1-Ig (ACO2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).





Various lysates were subjected to SDS PAGE followed by western blot with 67509-1-Ig (ACO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. $100 \text{ kD}_{a} \rightarrow 70 \text{ kD}_{a} \rightarrow 50 \text{ kD}_{a} \rightarrow 40 \text{ kD}_{a} \rightarrow$

250 kDa

150 kDa

HEK-293 cells were subjected to SDS PAGE followed by western blot with 67509-1-lg (ACO2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.