



Catalog Number GTX114233 **Package:**25 µl, 100 µl Proclin

Product Name Aconitase 2 antibody [N1N3]

Full Name aconitase 2, mitochondrial

Synonyms ACONM antibody, MGC20605 antibody, MGC33908 antibody, ACO2 antibody, citrate hydro-lyase antibody, "aconitate hydratase, mitochondrial antibody", "aconitase 2, mitochondrial antibody"

Product Description Rabbit Polyclonal antibody to Aconitase 2 (aconitase 2, mitochondrial)

Background The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification. [provided by RefSeq]

Host Rabbit

Clonality Polyclonal

Immunogen Recombinant fragment corresponding to a region within amino acids 74 and 340 of Aconitase 2 (Uniprot ID#Q99798)

Species Reactivity Human, Mouse

Predicted Cross Reactivity species Chicken, Pig, Rat, *Xenopus laevis*, Zebrafish, Bovine, *Xenopus tropicalis*

Predict Reactivity Note Chicken (95%), Pig (98%), Rat (97%), *Xenopus laevis* (94%), Zebrafish (91%), Bovine (97%), *Xenopus tropicalis* (95%)

Applications ICC/IF, IHC-P, WB

Application Note	Suggested dilution	Protocol	Reference
ICC/IF	1:100-1:1000*		
IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*		
Western blot	1:1000-1:10000*		

Not tested in other applications.

*Optimal dilutions/concentrations should be determined by the researcher.

Positive Controls 293T , A431 , Jurkat , Raji , mouse brain

Predicted Target Size 85 kDa

Cellular Localization Mitochondrion

Form Supplied Liquid

Purification Purified by antigen-affinity chromatography.

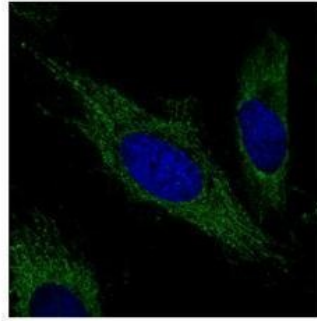
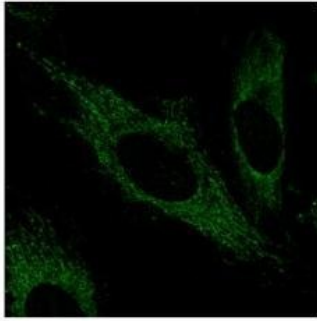
Concentration 1.77 mg/ml

Storage Buffer 1XPBS, 20% Glycerol (pH7). 0.025% proclin was added as a preservative.

Storage Instruction Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Notes For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

ResearchArea [Metabolism](#) > [Carbonhydrate metabolism](#) > [Kreb Cycle](#)



GTX114233_40191_IFA.jpg

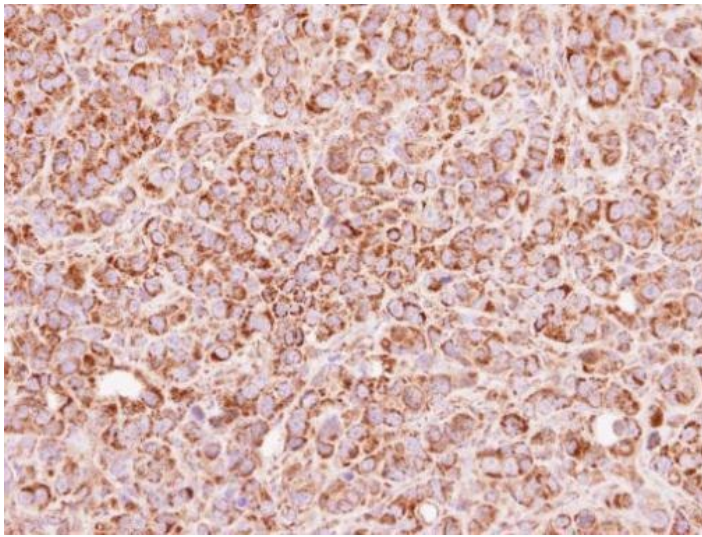
Aconitase 2 antibody [N1N3] detects ACO2 protein at mitochondria by confocal immunofluorescent analysis.

Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37°C for 30 min.

Green: ACO2 protein stained by Aconitase 2 antibody [N1N3] (GTX114233) diluted at 1:500.

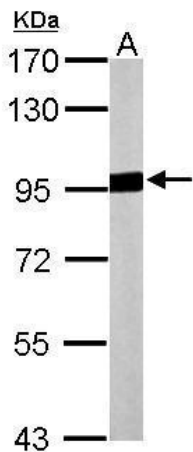
Blue: Hoechst 33342 staining.

[Images captured by Olympus FV10i Confocal Laser Scanning Microscope]



GTX114233_40191_IHC.jpg

Immunohistochemical analysis of paraffin-embedded MCF7 xenograft, using Aconitase2(GTX114233) antibody at 1:250 dilution.



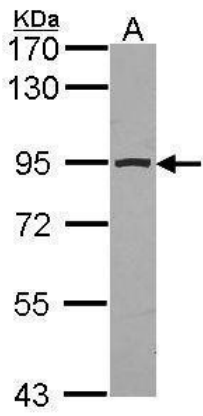
GTX114233_40191_WB_M_brain.jpg

Sample (20 ug of whole cell lysate)

A: mouse brain

7.5% SDS PAGE

GTX114233 diluted at 1:10000



GTX114233_WB.jpg

Sample (30 ug of whole cell lysate)

A: JurKat

7.5% SDS PAGE

Aconitase 2 antibody

GTX114233 diluted at 1:1000