Store at -200

ACO2 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: WB, IF-IC | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 85 | Source: Rabbit | UniProt ID: #Q99798 | Entrez-Gene Id: 50 | |
|---|-------------------------|---|------------------------|-------------------|-------------------------------|-----------------------|--|
| Product Usage | Ар | plication | | | | Dilution | |
| Information | We | stern Blotting | | | | 1:1000 | |
| | Imi | nunofluorescence (| Immunocytochemis | stry) | | 1:50 | |
| Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at - 20°C. Do not aliquot the antibody. | | | | | | glycerol. Store at – | |
| Specificity / Sensitivity | | ACO2 Antibody recognizes endogenous levels of total ACO2 protein. | | | | | |
| Source / Purification | | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly540 of human ACO2 protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | |
| Background | the cells | Aconitase 2 (ACO2) catalyzes the conversion of citrate to isocitrate via cis-aconitate in the second step of the tricarboxylic acid (TCA) cycle (1,2). ACO2 is also an important regulator of iron homeostasis within cells (1-4). In addition, research studies have shown that this enzyme is deficient in the mitochondrial disease Friedreich's Ataxia (4,5). | | | | | |
| Background Ref | 2. M 3. M 4. R | Gille, G. and Reichmann, H. (2011) J Neural Transm 118, 349-59. Mirel, D.B. et al. (1998) Gene 213, 205-18. Myers, C.R. et al. (2010) Free Radic Biol Med 49, 1903-15. Rötig, A. et al. (1997) Nat Genet 17, 215-7. Ye, H. and Rouault, T.A. (2010) Biochemistry 49, 4945-56. | | | | | |

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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