

Resource Summary Report

Generated by RRID on Aug 28, 2026

COX IV antibody - Mitochondrial Loading Control

RRID:AB_443304

Type: Antibody

Proper Citation

Abcam Cat# ab16056, RRID:AB_443304

Antibody Information

URL: http://antibodyregistry.org/AB_443304

Proper Citation: Abcam Cat# ab16056, RRID:AB_443304

Target Antigen: COX IV antibody - Mitochondrial Loading Control

Host Organism: rabbit

Clonality: polyclonal

Comments: validation status unknown, seller recommendations provided in 2012: ICC, ICC/IF, IHC-P, WB; Immunocytochemistry; Immunofluorescence; Immunohistochemistry; Immunohistochemistry - fixed; Western Blot

Antibody Name: COX IV antibody - Mitochondrial Loading Control

Description: This polyclonal targets COX IV antibody - Mitochondrial Loading Control

Target Organism: rat, hamster, xenopusamphibian, mouse, potato, plant, human

Antibody ID: AB_443304

Vendor: Abcam

Catalog Number: ab16056

Record Creation Time: 20250819T233545+0000

Record Last Update: 20250820T054932+0000

Ratings and Alerts

No rating or validation information has been found for COX IV antibody - Mitochondrial Loading Control.

No alerts have been found for COX IV antibody - Mitochondrial Loading Control.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 35 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Senoo N, et al. (2026) Disturbed mitochondrial maturation in cardiolipin remodeling-deficient cardiomyocytes. *iScience*, 29(3), 115111.

Goodman JH, et al. (2025) Overfeeding induces adipose tissue release of distinct mitochondria. *Cell reports*, 44(2), 115318.

Salazar MPR, et al. (2025) Mitochondrial fission controls astrocyte morphogenesis and organization in the cortex. *bioRxiv : the preprint server for biology*.

Chubanava S, et al. (2025) NAD depletion in skeletal muscle does not compromise muscle function or accelerate aging. *Cell metabolism*, 37(7), 1460.

Rodriguez Salazar MP, et al. (2025) Mitochondrial fission controls astrocyte morphogenesis and organization in the cortex. *The Journal of cell biology*, 224(10).

Cha M, et al. (2025) Correlation between knee pain and quadriceps condition in osteoarthritis rats treated with cog polydioxanone filaments. *The Korean journal of pain*, 38(3), 244.

Dai Z, et al. (2024) Protocol for isolating small cytosolic dsDNA from??cultured murine cells. *STAR protocols*, 5(2), 102998.

Damiecki M, et al. (2024) Mitochondrial apolipoprotein MIC26 is a metabolic rheostat regulating central cellular fuel pathways. *Life science alliance*, 7(12).

Ayagama T, et al. (2024) Compartmentalization proteomics revealed endolysosomal protein network changes in a goat model of atrial fibrillation. *iScience*, 27(6), 109609.

Tong L, et al. (2023) Mutational burden of XPNPEP3 leads to defects in mitochondrial complex I and cilia in NPHPL1. *iScience*, 26(8), 107446.

Shahin S, et al. (2023) MFN1 augmentation prevents retinal degeneration in a Charcot-Marie-Tooth type 2A mouse model. *iScience*, 26(3), 106270.

- Baranowski RW, et al. (2023) Toward countering muscle and bone loss with spaceflight: GSK3 as a potential target. *iScience*, 26(7), 107047.
- Fusagawa H, et al. (2023) Skeletal muscle endurance declines with impaired mitochondrial respiration and inadequate supply of acetyl-CoA during muscle fatigue in 5/6 nephrectomized rats. *Journal of applied physiology* (Bethesda, Md. : 1985), 135(4), 731.
- Oberkersch RE, et al. (2022) Aspartate metabolism in endothelial cells activates the mTORC1 pathway to initiate translation during angiogenesis. *Developmental cell*, 57(10), 1241.
- Barthet VJA, et al. (2022) DRAM-4 and DRAM-5 are compensatory regulators of autophagy and cell survival in nutrient-deprived conditions. *The FEBS journal*, 289(13), 3752.
- Coukos R, et al. (2021) An engineered transcriptional reporter of protein localization identifies regulators of mitochondrial and ER membrane protein trafficking in high-throughput CRISPRi screens. *eLife*, 10.
- Acoba MG, et al. (2021) The mitochondrial carrier SFXN1 is critical for complex III integrity and cellular metabolism. *Cell reports*, 34(11), 108869.
- Carter RN, et al. (2021) The hepatic compensatory response to elevated systemic sulfide promotes diabetes. *Cell reports*, 37(6), 109958.
- Kontou G, et al. (2021) Miro1-dependent mitochondrial dynamics in parvalbumin interneurons. *eLife*, 10.
- Sato A, et al. (2021) Immunofluorescence microscopy-based assessment of cytosolic DNA accumulation in mammalian cells. *STAR protocols*, 2(2), 100488.