

# OxPhos Complex IV subunit IV Monoclonal Antibody (20E8C12)

Product Details	
Size	100 µL
Species	Bovine, Human, Mouse, Rat, Zebrafish
Published Species	Rat, Mouse, Human
Expression System	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	20E8C12
Conjugate	Unconjugated
Immunogen	Bovine Complex IV (native holoenzyme protein, purified from liver).
Form	Liquid
Concentration	1 mg/mL
Purification	purified
Storage buffer	HEPES buffered saline
Contains	0.02% sodium azide
Storage Conditions	4° C
RRID	AB_2535839

Applications	Tested Dilution	Publications
Western Blot (WB)	1.0 µg/mL	71 Publications
ELISA (ELISA)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 Publications

Western Blot (71)

Oxidative medicine and cellular longevity

**Chloramphenicol Mitigates Oxidative Stress by Inhibiting Translation of Mitochondrial Complex I in Dopaminergic Neurons of Toxin-Induced Parkinson's Disease Model.**

"A21348 was used in Western Blotting to show chloramphenicol in a toxin-induced Parkinson's Disease model mediates inhibition of mitochondrial complex I in dopaminergic neurons leading to mitigation of oxidative stress."

Authors: Han J, Kim SJ, Ryu MJ, Jang Y, Lee MJ, Ju X, Lee YL, Cui J, Shong M, Heo JY, Kweon GR

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

Brain pathology (Zurich, Switzerland)

**Oxidative stress and mitochondrial dynamics malfunction are linked in Pelizaeus-Merzbacher disease.**

"A21348 was used in Western Blotting to examine the link between redox and metabolic homeostasis in myelin diseases."

Authors: Ruiz M, Bégou M, Launay N, Ranea-Robles P, Bianchi P, López-Erauskin J, Morató L, Guilera C, Petit B, Vaurs-Barriere C, Guéret-Gonthier C, Bonnet-Dupeyron MN, Fourcade S, Auwerx J, Boespflug-Tanguy O, Pujol A

**Species**  
Mouse

**Dilution**  
1:2,000

**Year**  
2018

[View more WB references on thermofisher.com](#)

Miscellaneous PubMed (6)

Biochemical pharmacology

**Lactate's effect on human neuroblastoma cell bioenergetic fluxes.**

"A21348 was used in western blot to investigate how lactate affects neuron metabolism"

Authors: E L, Swerdlow RH

**Species**  
Human

**Dilution**  
1:2000

**Year**  
2016

Mitochondrion

**Inhibition of mitochondrial genome expression triggers the activation of CHOP-10 by a cell signaling dependent on the integrated stress response but not the mitochondrial unfolded protein response.**

"A21348 was used in western blot to demonstrate that altered/impaired expression of mtDNA induces CHOP-10 expression dependent on the eIF2/ATF4 axis of the integrated stress response."

Authors: Michel S, Canonne M, Arnould T, Renard P

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2015

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More applications with references on thermofisher.com

- IHC (3)
- IHC (P) (1)
- ICC (1)
- ELISA (1)

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