

## ARG30271

### Mitochondrial Marker Antibody Panel (Cytochrome C, COX4, HSP60)

Package: 1 kit  
Store at: -20°C

#### Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG54173	anti-Hsp 60 antibody	Mouse mAb	Hu, Ms, Rat	ICC/IF, IP, WB	50 µl
ARG54003	anti-COX4 antibody	Mouse mAb	Hu, Ms, Rat, Goat, Hm, Mk	FACS, ICC/IF, IHC-P, IP, WB	50 µl
ARG62461	anti-Cytochrome C antibody [6H2.B4]	Mouse mAb	Hu, Ms, Rat	FACS, ICC/IF, IP, WB	50 µl
ARG65350	Goat anti-Mouse IgG antibody (HRP)	Goat pAb	Ms	ELISA, IHC-P, WB	50 µl

#### Summary

##### Product Description

Cytochrome C, COX IV and HSP60 are markers for mitochondrial organelle. Cytochrome C is a component of the electron transport chain in mitochondria. The heme group of Cytochrome C accepts electrons from the b-c1 complex and transfers electrons to the cytochrome oxidase complex. HSP60 is a member of chaperon family. It is essential for the folding and assembly of newly imported proteins in the mitochondria. COX IV is one of the subunit of the Cytochrome C Oxidase (COX) hetero-oligomeric enzyme located in the inner mitochondrial membrane. It helps catalyzing the reduction of molecular oxygen to water coupled to the translocation of protons across inner membrane of mitochondria to drive ATP synthesis.

Nishikimi et al. Nucleic Acids Res 16: 3577 (1988)  
Venner et al. DNA Cell Biol 9: 545-552 (1990)  
Kadenbach et al. Free Radic Biol Med 29: 211-221 (2000)

##### Target Name

Mitochondrial Marker

##### Alternate Names

Mitochondrial Marker antibody; COX4 antibody; Hsp 60 antibody; Cytochrome C antibody

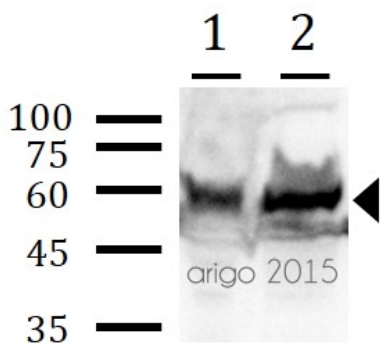
#### Properties

##### Storage instruction

For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

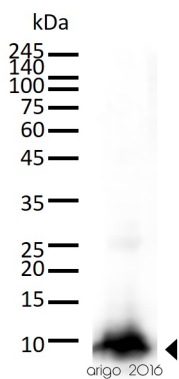
##### Note

For laboratory research only, not for drug, diagnostic or other use.



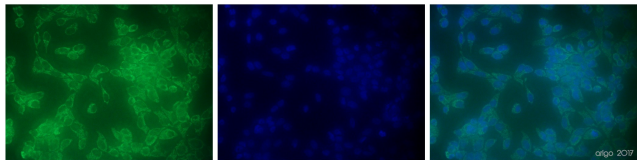
ARG54173 anti-Hsp60 antibody WB image

Western blot: 30 µg of 1) Mouse brain, and 2) Rat brain lysates stained with ARG54173 anti-Hsp60 antibody at 1:1000 dilution.



ARG62461 anti-Cytochrome C antibody [6H2.B4] WB image

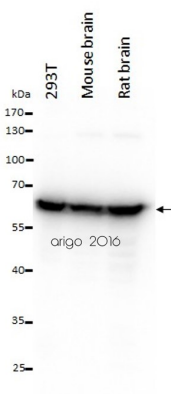
Western blot: 30 µg of Mouse kidney lysate stained with ARG62461 anti-Cytochrome C antibody [6H2.B4] at 1:500 dilution.



ARG54173 anti-Hsp 60 antibody ICC/IF image

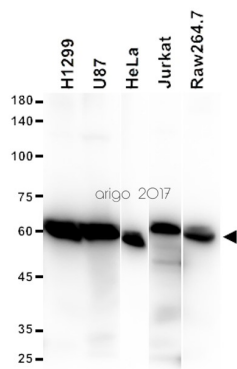
Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG54173 anti-Hsp 60 antibody at 1:100 dilution. Left: primary antibody (green). Middle: DAPI (blue). Right: Merge.

Secondary antibody: ARG55393 Goat anti-Mouse IgG (H+L) antibody (FITC)



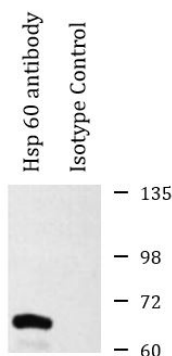
ARG54173 anti-Hsp 60 antibody WB image

Western blot: 20 µg of 293T, Mouse brain and Rat brain lysates stained with ARG54173 anti-Hsp 60 antibody at 1:1000 dilution.



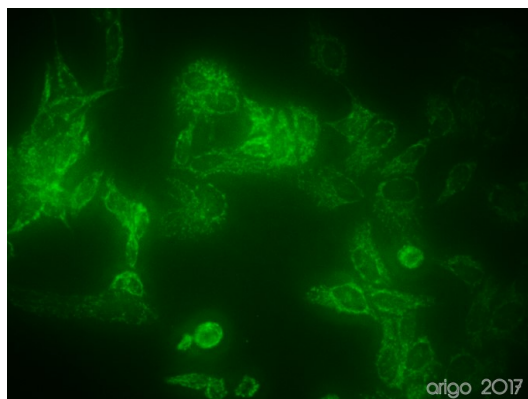
ARG54173 anti-Hsp 60 antibody WB image

Western blot: 15 µg of H1299, U87, HeLa, Jurkat and Raw264.7 cell lysates stained with ARG54173 anti-Hsp 60 antibody.



ARG54173 anti-Hsp 60 antibody IP image

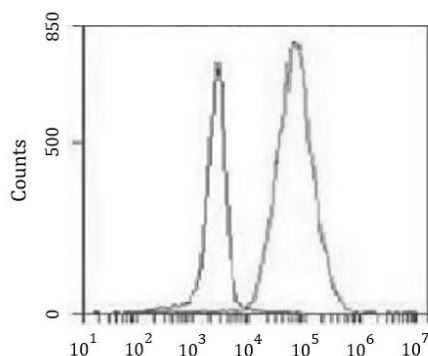
Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG54173 anti-Hsp 60 antibody.



ARG54003 anti-COX4 antibody ICC/IF image

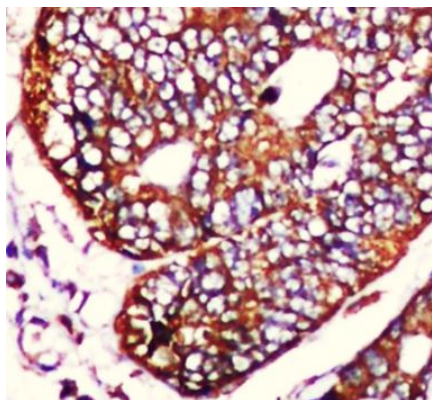
Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG54003 anti-COX4 antibody (green) at 1:150 dilution.

Secondary antibody: [ARG55393](#) Goat anti-Mouse IgG (H+L) antibody (FITC)



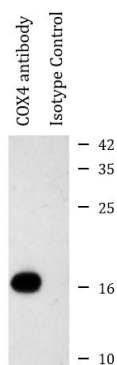
ARG54003 anti-COX4 antibody FACS image

Flow Cytometry: K562 cells stained with ARG54003 anti-COX4 antibody at 1:100 dilution (right histogram) or isotype control (left histogram), followed by incubation with FITC labelled secondary antibody.



ARG54003 anti-COX4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colorectal carcinoma stained with ARG54003 anti-COX4 antibody at 1:50 dilution. Antigen Retrieval: High-pressure and temperature Citrate buffer (pH 6.0).



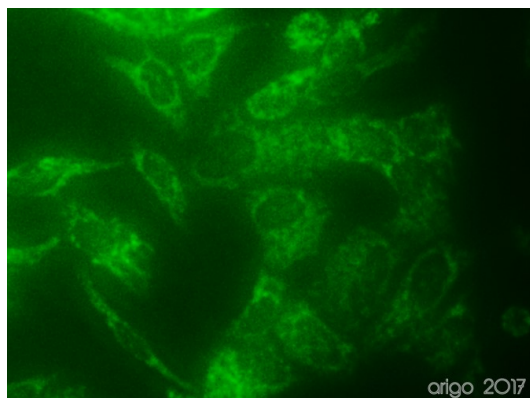
ARG54003 anti-COX4 antibody IP image

Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG54003 anti-COX4 antibody.



ARG54003 anti-COX4 antibody WB image

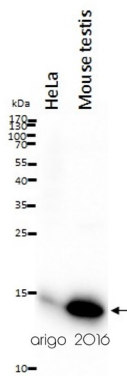
Western blot: 20 µg of HeLa, Mouse brain and Rat brain lysates stained with ARG54003 anti-COX4 antibody at 1:1000 dilution.



ARG54003 anti-COX4 antibody ICC/IF image

Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG54003 anti-COX4 antibody (green) at 1:150 dilution.

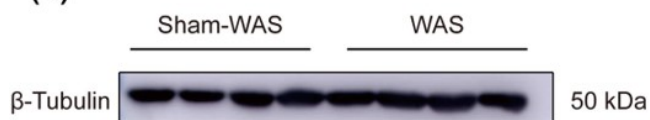
Secondary antibody: [ARG55393](#) Goat anti-Mouse IgG (H+L) antibody (FITC)



ARG62461 anti-Cytochrome C antibody [6H2.B4] WB image

Western blot: 20 µg of HeLa and Mouse testis lysates stained with ARG62461 anti-Cytochrome C antibody [6H2.B4] at 1:500 dilution.

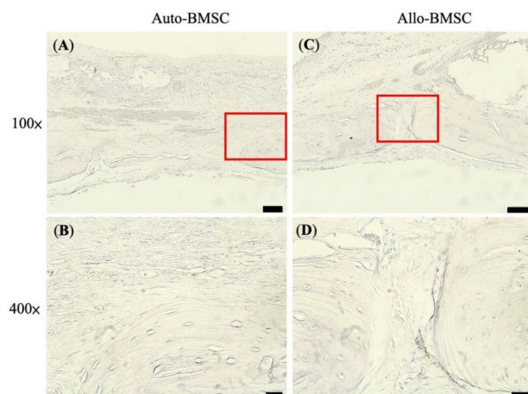
(D)



ARG65350 Goat anti-Mouse IgG antibody (HRP) WB image

Western blot: Rat basolateral amygdala stained with [ARG62347 anti-beta Tubulin antibody \[BT7R\]](#) at 1:1000 dilution, ARG65350 Goat anti-Mouse IgG antibody (HRP) at 1:5000 dilution.

From Guang-Bing Duan et al. CNS Neurosci Ther. (2024), [doi: 10.1111/cns.14611](https://doi.org/10.1111/cns.14611), Fig. 4.D.



ARG65350 Goat anti-Mouse IgG antibody (HRP) IHC-P image

From Cheng-Feng Chu et al. J Pers Med. (2021), [doi: 10.3390/jpm11121326](https://doi.org/10.3390/jpm11121326), Fig. 6.