

## ARG30276 Cytochrome-C fractionation Antibody Panel (Cytochrome-C, COX IV, beta Actin)

Package: 1 kit  
Store at: -20°C

### Component

| Cat. No. | Component Name                      | Host clonality | Reactivity   | Application                 | Package |
|----------|-------------------------------------|----------------|--|-----------------------------|---------|
| ARG62461 | anti-Cytochrome C antibody [6H2.B4] | Mouse mAb      | Hu, Ms, Rat  | FACS, 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   |
| ARG53987 | anti-beta Actin antibody            | Mouse mAb      | Arabi, Chk, C. reinhardtii, Cucumber, Dm, Fsh, Goat, Hm, Hu, Mk, Ms, P. pastoris, Pig, Rb, Rat, Rice, S. cerevisiae, Yeast, Zfsh | WB                          | 50 µl   |
| ARG65350 | Goat anti-Mouse IgG antibody (HRP)  | Goat pAb       | Ms   | ELISA, IHC-P, WB            | 50 µl   |

### Summary

|                     |  |
|---------------------|--|
| Product Description | Apoptosis is a process of programmed cell death that occurs in multicellular organism. Intracellular or extracellular death signals kick-start apoptosis signaling by releasing Cytochrome-C from mitochondria through BAX. The released Cytochrome-C binds to APAF-1 and cleave caspase 9. Finally, caspase-3 and PARP will be cleaved and the cells officially go into apoptosis and die. The cellular localization of Cytochrome-C often informs us of the trigger of apoptosis pathway. Hence, Cytochrome-C antibody together with COX IV (mitochondria marker) and beta Actin (cytoplasm marker) antibodies form a great package for the study of Cytochrome-C localization through cell fractionation.<br><br>Nur-E-Lamal et al. 2004. JBC 279:24911-24914 |
| Target Name         | Cytochrome-C fractionation   |
| Alternate Names     | Cytochrome-C fractionation antibody; beta Actin antibody; COX4 antibody; Cytochrome C antibody   |

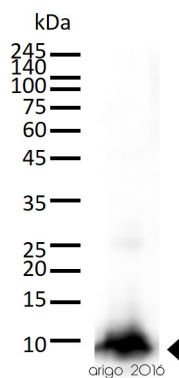
### Properties

|                     |  |
|---------------------|--|
| 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.   |

### Bioinformation

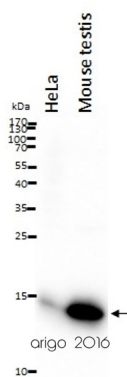
|                |  |
|----------------|--|
| Gene Full Name | Antibody Panel for Cytochrome-C fractionation (Cytochrome-C, COX IV, beta Actin) |
|----------------|--|

## Images



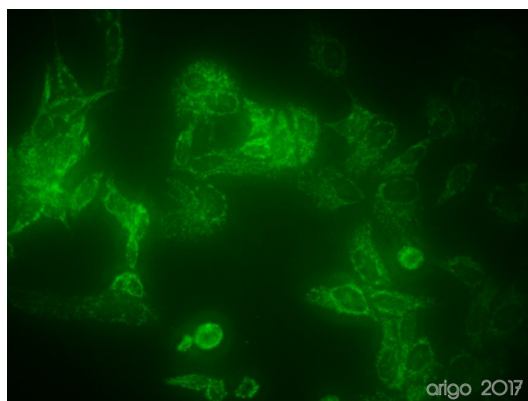
ARG62461 anti-Cytochrome C antibody [6H2.B4] WB image

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



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

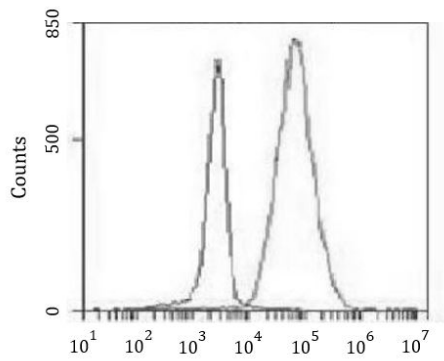
Western blot: 20 µg of HeLa and Mouse testis lysates stained with ARG62461 anti-Cytochrome C antibody [6H2.B4] at 1:500 dilution.



ARG54003 anti-COX4 antibody ICC/IF image

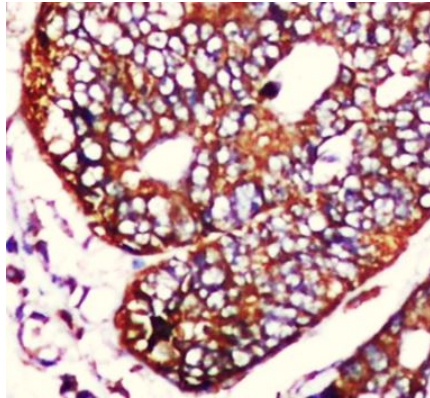
Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG54003 anti-COX4 antibody (green) at 1:150 dilution.

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.



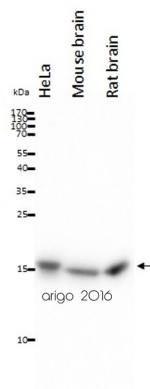
#### ARG54003 anti-COX4 antibody IHC-P image

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).



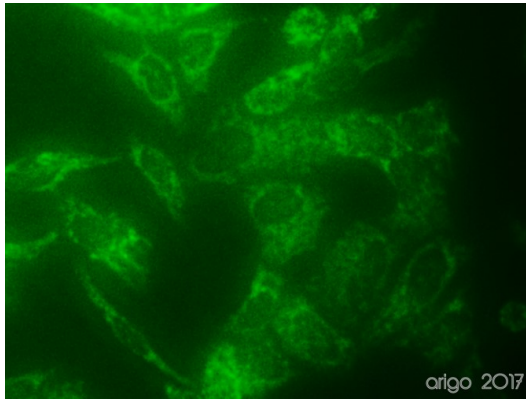
#### ARG54003 anti-COX4 antibody IP image

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.

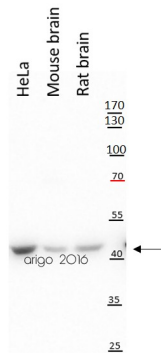
Secondary antibody: [ARG55393](#) Goat anti-Mouse IgG (H+L) antibody (FITC)



#### ARG53987 anti-beta Actin antibody WB image

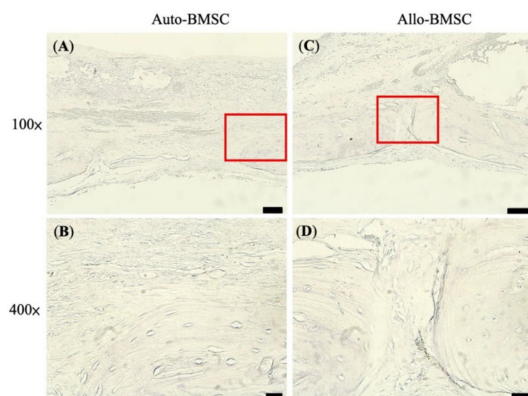
Western blot: RA-FLSs stained with ARG53987 anti-beta Actin antibody.

From Machado CRL et al. Preprint- (2023), [doi: 10.1186/s42358-022-00281-0](#), Fig. 5. E.



#### ARG53987 anti-beta Actin antibody WB image

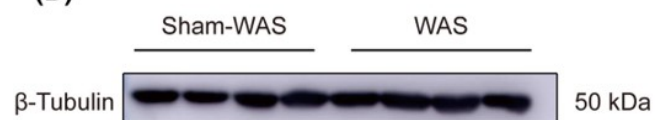
Western blot: 20 µg of HeLa, Mouse brain and Rat brain lysates stained with ARG53987 anti-beta Actin antibody at 1:10000 dilution.



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

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

(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](#), Fig. 4.D.