

ARG30061 Tag Internal Control Antibody Duo (dsRed, GAPDH)

Package: 1 pair
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG10112	anti-GAPDH antibody [6C5]	Mouse mAb	AGMK, Bb, Cat, Chk, Dog, Fsh, Hm, Hu, Mk, Ms, Pig, Rb, Rat, Xenopus laevis, Zfsh	ELISA, ICC/IF, IHC-Fr, WB	50 µg

Summary

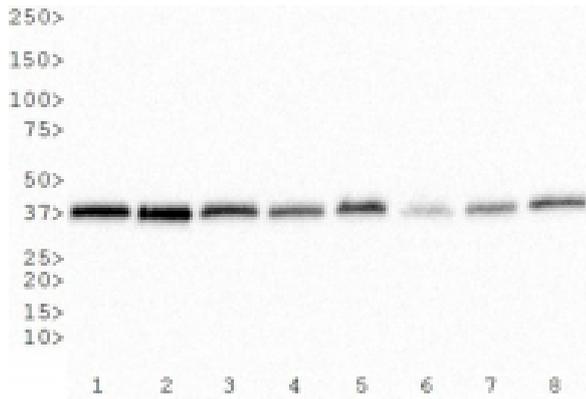
Product Description	Reporter genes (often simply reporter) are chosen as reporters because the characteristics they confer on organisms expressing them are easily identified and measured, or because they are selectable markers. The commonly used reporters including GFP, dsRed protein (RFP), YFP, β -galactosidase, luciferase and so on, could be used to analysis gene regulation, gene expression or as a tag to trace the location of the protein. To study the gene regulation by protein level, arigo recommend to include GAPDH as a loading control to normalize the sample loading and the experimental errors to show the convincing result. GAPDH is often stably and constitutively expressed at high levels in most tissues and cells in cytoplasm. Therefore, GAPDH is a widely used loading control and cytoplasm marker for western blot (35-40kDa) and ICC/IF study. Usage note: S-nitrosylated GAPDH might translocate to nucleus especially for nitric oxide-related studies. In addition, the GAPDH expression level is up regulated under hypoxia condition. Therefore, GAPDH is not suitable for loading control and cytoplasm marker for oxygen-related and nitric oxide-related studies.
Target Name	Tag Internal Control
Alternate Names	Tag Internal Control antibody; GAPDH antibody; RFP + dsRed 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.

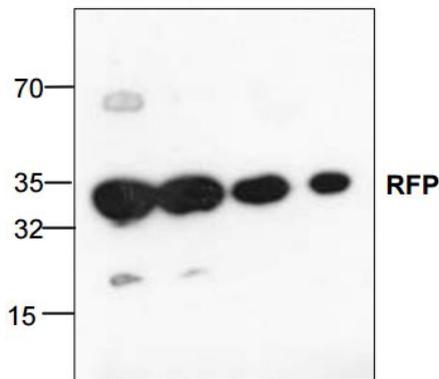
Bioinformation

Gene Full Name	Antibody Duo for Tag Internal Control (dsRed, GAPDH)
Research Area	Cancer antibody; Controls and Markers antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody



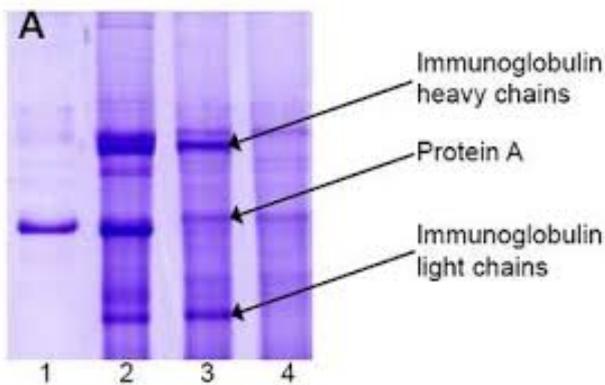
ARG10112 anti-GAPDH antibody [6C5] WB image

Western Blot: 1) HeLa, 2) NTERA-2, 3) A-431, 4) HepG2, 5) MCF-7, 6) NIH 3T3, 7) PC-12 and 8) COS-7 whole cell lysates stained with anti-GAPDH antibody [6C5] (ARG10112)



ARG20305 anti-RFP (dsRed) antibody WB image

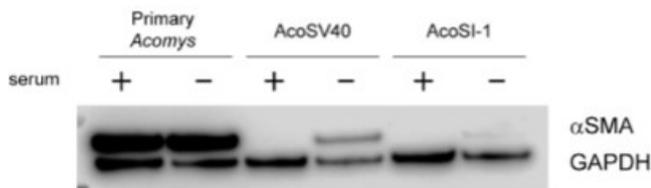
Western Blot: 1. Recombinant RFP (1000 ng) 2. Recombinant RFP (250 ng) 3. Recombinant RFP (50 ng) 4. Recombinant RFP (10 ng) stained with anti-RFP (dsRed) antibody (ARG20305).



ARG10112 anti-GAPDH antibody [6C5] IP image

Immunoprecipitation and western blot: 1) GAPDH (1 µg). 2) GAPDH IP from rat heart tissue extract. 3) Only GAPDH preincubated with Protein A Sepharose. 4) Only Protein A Sepharose stained with ARG10112 GAPDH antibody [6C5].

Mixture of protein A-Sepharose with ARG10112 anti-GAPDH and tissue extract was incubated for 30 min at room temperature and precipitated by centrifugation. Pellet was washed with PBS, suspended in reducing electrophoresis sample buffer and heated for 5 minutes at 100°C. After centrifugation supernatant was loaded on gel and proteins were separated by SDS electrophoresis.



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: pAFs, AcoSV40, and AcoSI-1 stained with ARG10112 anti-GAPDH antibody [6C5] at 1:5000 dilution.

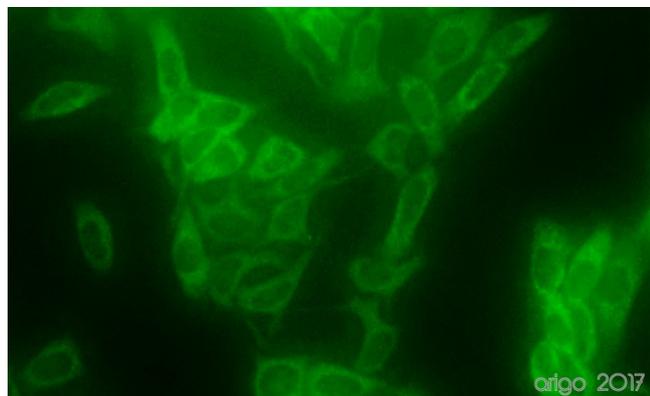
From Michele N Dill et al. PLoS One. (2023), [doi: 10.3389/fcell.2022.899869](https://doi.org/10.3389/fcell.2022.899869), Fig. 2. C.



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: Porcine kidney stained with ARG10112 anti-GAPDH antibody [6C5].

From Gianni Huang et al. Front Cell Dev Biol (2022), [doi: 10.3389/fcell.2022.899869](https://doi.org/10.3389/fcell.2022.899869), Fig. 2. E.



ARG10112 anti-GAPDH antibody [6C5] ICC/IF image

Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG10112 anti-GAPDH antibody [6C5] (green) at 1:200 dilution.

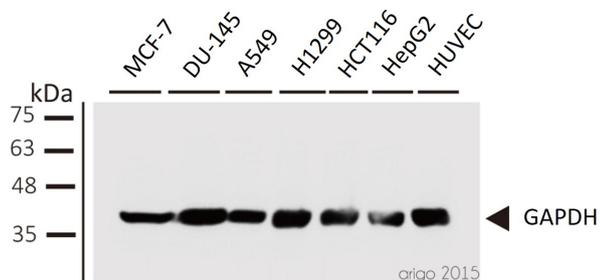
Secondary antibody: [ARG55393](https://doi.org/10.3389/fcell.2022.899869) Goat anti-Mouse IgG (H+L) antibody (FITC)



ARG10112 anti-GAPDH antibody [6C5] WB image

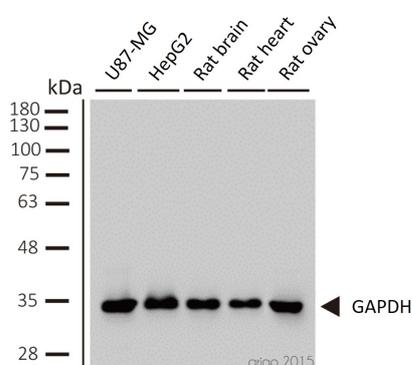
Western blot: Mouse samples stained with ARG10112 anti-GAPDH antibody [6C5] at 1:1000 dilution.

From Yun-Yun Li et al. Int J Biol Sci (2022), [doi: 10.7150/ijbs.68224](https://doi.org/10.7150/ijbs.68224), Fig. 5. C.



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: 1) MCF-7 2) DU-145 3) A549 4) H1299 5) HCT116 6) HepG2 7) HUVEC stained with ARG10112 anti-GAPDH antibody [6C5] at 1:1000 dilution.



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: 1) U87-MG 2) HepG2 3) rat brain 4) rat heart 5) rat ovary stained with ARG10112 anti-GAPDH antibody [6C5] at 1:2000 dilution.

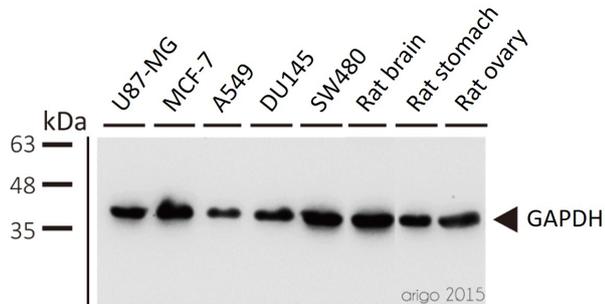
GAPDH



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: HUVEC stained with ARG10112 anti-GAPDH antibody [6C5].

From Bingzheng Lu et al. Oxid Med Cell Longev (2020), [doi: 10.1155/2020/2048210](https://doi.org/10.1155/2020/2048210), Fig. 5. B.



ARG10112 anti-GAPDH antibody [6C5] WB image

Western blot: 1) U87-MG 2) MCF-7 3) A549 4) DU145 5) SW480 6) rat brain 7) rat stomach 8) rat ovary stained with ARG10112 anti-GAPDH antibody [6C5] at 1:5000 dilution.