AGO2 Monoclonal Antibody (AGO2 11A9), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	AGO2 11A9
Conjugate	Unconjugated
Immunogen	Peptide of human N-terminus
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2784637

Applications	Tested Dilution	Publications
Western Blot (WB)	4.0 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	1.25 µg/mL	1 Publication

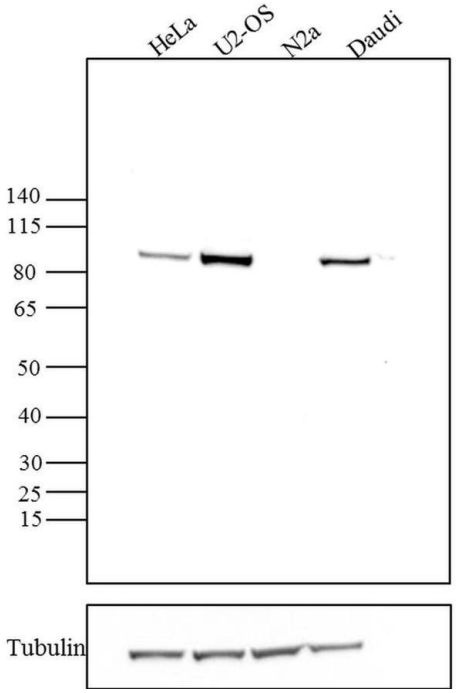
Product Specific Information

Description: This AGO2 11A9 monoclonal antibody recognizes human Argonaut 2 (Ago2), which has been described as a transcriptional regulator by means of RNA interference and endonucleolytic cleavage. The epitope recognized by AGO2 11A9 detects reduced Ago2 by Western Blot and stains Ago2 in the cytoplasm and nucleus in Immunocytochemistry. Ago2 monoclonal antibody (AGO2 11A9) has been validated for the following applications: Western Blot and Immunocytochemistry; AGO2 11A9 does not cross react with murine Ago2.

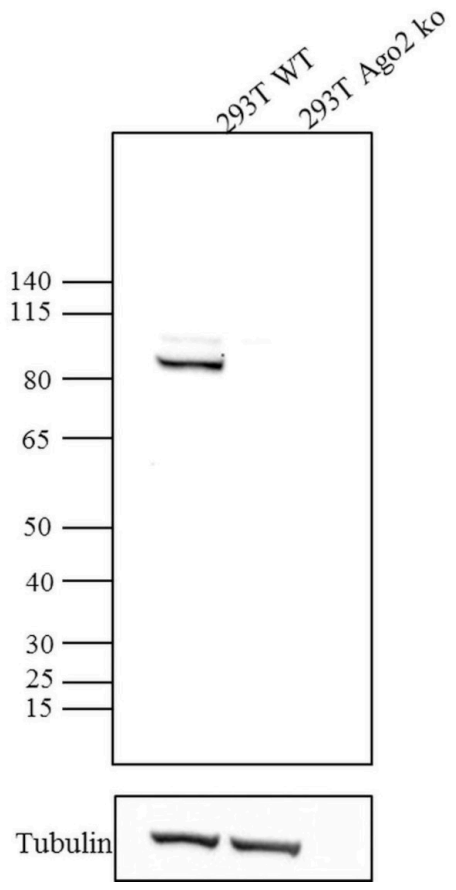
Applications Reported: This AGO2 11A9 antibody has been reported for use in western blot and immunocytochemistry /immunofluorescence.

Applications Tested: This AGO2 11A9 antibody has been tested by western blot using lysates from different human cancer cell lines and by immunocytochemistry/immunofluorescence using fixed human U-2 OS cells. This may be used at less than or equal to 4 µg/mL for western blot and at less than or equal to 1.25 µg/mL for immunocytochemistry/immunofluorescence.

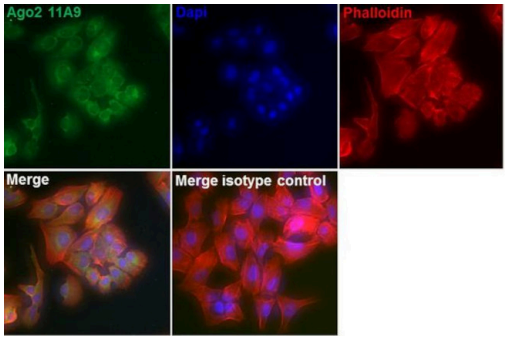
Product Images For AGO2 Monoclonal Antibody (AGO2 11A9), eBioscience™



AGO2 Antibody (14-6519-82) in WB
Western Blot analysis was performed using whole cell extracts of HeLa (Lane 1), U2-OS (Lane 2), N2a (Lane 3) and Daudi cells (Lane 4) on a 4-12% Nupage Bis-Tris Gel (Product # NP0336BOX) for gel electrophoresis in MOPS SDS Running Buffer (Product # NP0001-02). Protein transfer to a nitrocellulose membrane was achieved using the iBlot 2 system. The membrane was probed with Ago2 Monoclonal Antibody (AGO2 11A9) (Product # 14-6519-82) (4 µg/ mL) and detected by chemiluminescence using Goat-anti Rat IgG Secondary Antibody, HRP (Product # 31470) at 1:10,000 dilution. A ~93 kDa band was detected in all human lysates (Lanes 1, 2, 4) but not in mouse cell lysates (Lane 3) using Super Signal West Pico chemiluminescence substrate. Protein size was determined using Page Ruler Pre-stained Protein Standard (Product # 26616).



AGO2 Antibody (14-6519-82)
Western Blot analysis was performed using whole cell extracts of wild type (WT) 293T cells (Lane 1) and Ago2 knockout 293T cells generated by Crispr/Cas9 gene targeting (Lane 2) on a 4-12% Nupage Bis-Tris Gel (Product # NP0336BOX) for gel electrophoresis in MOPS SDS Running Buffer (Product # NP0001-02). Protein transfer to a nitrocellulose membrane was achieved using the iBlot 2 system. The membrane was probed with Ago2 Monoclonal Antibody (clone AGO2 11A9, 4 µg/mL) and detected by chemiluminescence using Goat-anti Rat IgG Secondary Antibody, HRP (Product # 31470) at 1:10,000 dilution. This Ago2 Monoclonal Antibody detects a 93 kDa band in WT 293T cells but not in Ago2 knockout lysate using Super Signal West Pico chemiluminescence substrate. Protein size was determined using Page Ruler Pre-stained Protein Standard (Product # 26616). {KO}



AGO2 Antibody (14-6519-82) in ICC/IF
Immunofluorescent analysis of Ago2 (green) in U-2 OS cells (45% confluency). The cells were fixed with 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 1% Triton X-100 for 30 minutes at 37 C and blocked with 10% Normal Goat Serum in PBS with 0.1% Triton X-100 for 1 hour at room temperature. Cells were stained with the Ago2 Monoclonal Antibody (Product # 14-6519-82) at a concentration of 1.25 µg/mL or Rat IgG2a Isotype Control at 4 C overnight in blocking buffer followed by a Goat anti-Rat IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor 488 conjugate (Product # A11006) at a dilution of 4 µg/mL in blocking buffer for 1 hour at room temperature. Nuclei (blue) were stained with Fluoromount G with DAPI (Product # 00-4959) and the cytoskeleton was visualized using Rhodamine Phalloidin (red) (Product # R415).

View more figures on thermofisher.com

2 References

Western Blot (1)

Cells

Silencing of Ago-2 Interacting Protein SERBP1 Relieves KCC2 Repression by miR-92 in Neurons.

"Published figure using AGO2 monoclonal antibody (Product # 14-6519-82) in Western Blot"

Authors: Barbato C,Frisone P,Braccini L,D'Aguanno S,Pieroni L,Ciotti MT,Catalanotto C,Cogoni C,Ruberti F

Year
2022

Immunocytochemistry (1)

Wellcome open research

No evidence for Ago2 translocation from the host erythrocyte into the *Plasmodium* parasite.

"Published figure using AGO2 monoclonal antibody (Product # 14-6519-82) in Immunocytochemistry"

Authors: Hentzschel F,Obrova K,Marti M

Year
2021

Species
Human

Dilution
1:50