

Dicer Monoclonal Antibody (GT1176)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GT1176
Conjugate	Unconjugated
Immunogen	Recombinant protein encompassing a sequence within the aa 819-1112 of Human Dicer. The exact sequence is proprietary.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2735165

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

Product Specific Information

Positive Control: A431

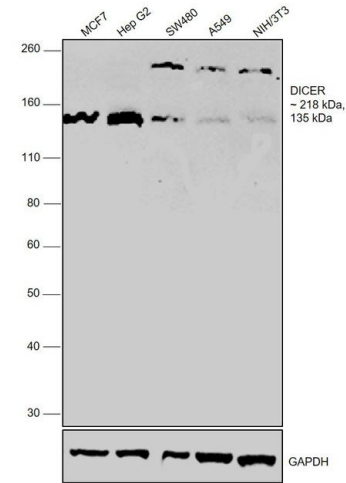
Predicted Reactivity: Mouse (97%), Zebrafish (93%), Xenopus laevis (92%), Pig (99%), Chicken (96%), Rhesus Monkey (100%), Bovine (99%)

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For Dicer Monoclonal Antibody (GT1176)

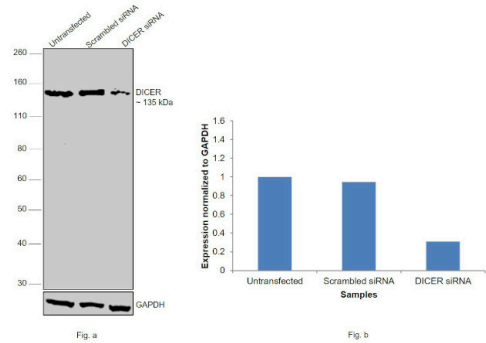
Dicer Antibody (MA5-27827) in WB

Western blot was performed using Anti-DICER Monoclonal Antibody (GT1176) (Product # MA5-27827) and ~218 kDa and ~135 kDa bands corresponding to DICER was observed in the cell lines tested. Whole cell extracts (40 µg lysate) of MCF7 (Lane 1), Hep G2 (Lane 2), SW480 (Lane 3), A549 (Lane 4) and NIH/3T3 (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). The blot was probed with the primary antibody (0.5 µg /ml dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Human DICER is a large multidomain protein with two RNase III domains, N-terminal helicase, DUF and PAZ domains. ~135 kDa protein detected could correspond to a C-terminal truncated form of DICER [doi: 10.1016/j.celrep.2013.07.013].



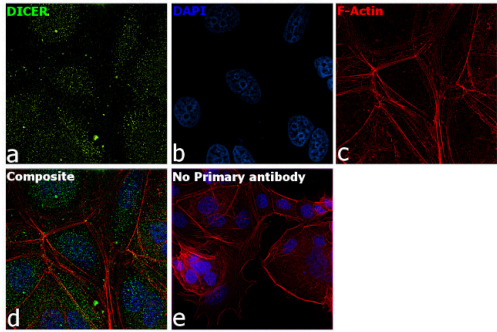
Dicer Antibody (MA5-27827)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with DICER siRNA and decrease in signal intensity was observed in western blot application using Anti-Dicer Monoclonal Antibody (GT1176) (Product # MA5-27827). {KD}



Dicer Antibody (MA5-27827) in ICC/IF

Immunofluorescence analysis of DICER was performed using 70% confluent log phase MCF7 cells. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with DICER Monoclonal Antibody (GT1176) (Product # MA5-27827) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32723, 1:2000 dilution) for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic staining of DICER in MCF7. DICER is also known to associate with chromatin for decondensation and this appears as punctate structures within the nucleus. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.[doi:10.1093/nar/gkx261].



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