

Rabbit anti-Human, Mouse Dicer/DICER1 Polyclonal Antibody | anti-DICER1 antibody

Anti-Dicer/DICER1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125977	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Dicer/DICER1; Polyclonal Antibody; Anti-Dicer/DICER1 Antibody Picoband; anti-DICER1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-DICER1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Dicer/DICER1 recombinant protein (Position: Y1546-S1922).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



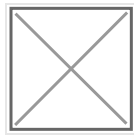
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Caco-2 cells using anti-Dicer/DICER1 antibody (AAA125977). Overlay histogram showing Caco-2 cells stained with AAA125977 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Dicer/DICER1 Antibody (AAA125977, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Dicer/DICER1 using anti-Dicer/DICER1 antibody (AAA125977). Dicer/DICER1 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Dicer/DICER1 Antibody (AAA125977) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Dicer/DICER1 using anti-Dicer/DICER1 antibody (AAA125977). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human HEPG2 whole cell lysates, Lane 3: human RT4 whole cell lysates, Lane 4: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Dicer/DICER1 antigen affinity purified polyclonal antibody (#AAA125977) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Dicer/DICER1 at approximately 220-250 kDa. The expected band size for Dicer/DICER1 is at 219 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-DICER1 antibody	Dicer(DICER1), also known as endoribonuclease Dicer or helicase with RNase motif, is an enzyme that in humans is encoded by the DICER1 gene. It is mapped to 14q32.13. The DICER1 gene, a member of the ribonuclease III (RNaseIII) family, is involved in the generation of microRNAs (miRNAs), which modulate gene expression at the posttranscriptional level. DICER1 possesses an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus DICER, also known as helicase-MOI, is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. In addition, DICER1 is required for formation of the RNA induced silencing complex (RISC). It also cleaves double-stranded RNA to produce short interfering RNAs (siRNAs) which target the selective destruction of complementary RNAs.
Product Categories/Family for anti-DICER1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	307133775
NCBI GeneID	23405
NCBI Accession #	NP_001182502.1
NCBI GenBank Nucleotide #	NM_001195573.1
UniProt Accession #	Q9UPY3; O95943; Q9UQ02; A7E2D3; E0AD28
Molecular Weight	1922
NCBI Official Full Name	endoribonuclease Dicer isoform 2
NCBI Official Synonym Full Names	dicer 1, ribonuclease type III
NCBI Official Symbol	DICER1
NCBI Official Synonym Symbols	DCR1; MNG1; Dicer; HERNA
NCBI Protein Information	endoribonuclease Dicer; K12H4.8-LIKE; helicase MOI; helicase-moi; Dicer1, Dcr-1 homolog; helicase with RNase motif; dicer 1, double-stranded RNA-specific endoribonuclease
UniProt Protein Name	Endoribonuclease Dicer
UniProt Gene Name	DICER1
UniProt Synonym Gene Names	DICER; HERNA; KIAA0928; Helicase MOI
UniProt Entry Name	DICER_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dicer-dicer1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125977>