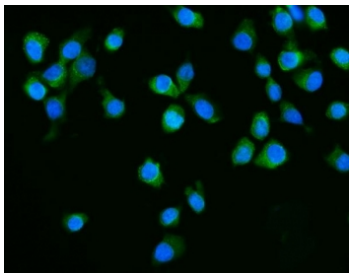
Dicer Antibody (RQ6547)

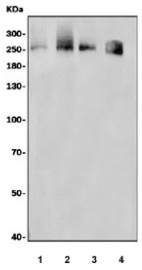
Catalog No.	Formulation	Size
RQ6547	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

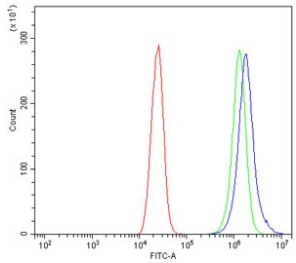
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UPY3
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Dicer antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with Dicer antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human K562, 2) human HepG2, 3) human RT4 and 4) mouse NIH 3T3 cell lysate with Dicer antibody. Expected molecular weight: 219-250 kDa.



Flow cytometry testing of human Caco-2 cells with Dicer antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Dicer antibody.

Description

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 (RNase III) family, is involved in the generation of microRNAs (miRNAs), which modulate gene expression at the post-transcriptional 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.

Application Notes

Optimal dilution of the Dicer antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids Y1546-S1922) was used as the immunogen for the Dicer antibody.

Storage

After reconstitution, the Dicer antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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