

## Anti-Dicer/DICER1 Antibody Picoband® PE Conjugated

Catalog Number: RP1044-PE

### About DICER1

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.

### Overview

Product Name	Anti-Dicer/DICER1 Antibody Picoband® PE Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q9UPY3

### Technical Details

Immunogen	E.coli-derived human Dicer recombinant protein (Position: M1-N195). Human Dicer shares 94% amino acid (aa) sequence identity with mouse Dicer.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	PE Excitation Wavelength: 566 nm Emission Wavelength: 574 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

### 3 Publications Citing This Product

1. PubMed ID: -, Xiaoxiao Zhang, Peng Li, Huanhuan Zhong, Fanming Yang, Fanzhou Liu, Gabriel Yedid, Yan Zeng, Extending the L1 region in canonical double-stranded RNA-binding domains impairs their functions, Acta Biochimica et Biophysica Sinica, 2021;, gma014, <https://doi.org/10.1093/abbs/gma014>
2. PubMed ID: 25727017, Gao Y, Wang Y, Feng J, Feng G, Zheng M, Yang Z, Xiao Z, Lu Z, Ye L, Zhang X. Biochem Biophys Res Commun. 2015 Apr 3;459(2):306-12. Doi: 10.1016/J.Bbrc.2015.02.106. Epub 2015 Feb 26. A Hairpin Within Yap Mrna 3'Utr Functions In Regulation At Post-T...
3. PubMed ID: 27133296, Post-transcriptional modulation of protein phosphatase PPP2CA and tumor suppressor PTEN by endogenous siRNA cleaved from hairpin within PTEN mRNA 3'UTR in human liver cells

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