10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Dicer Recombinant Mouse mAb

Dicer Recombinant Mouse mAb
Catalog # AP94350

Product Information

Application	WB, IF, ICC
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG2a
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
SIMILARITY	Belongs to the helicase family. Dicer subfamily. Contains 1 Dicer dsRNA-binding fold domain. Contains 1 DRBM (double-stranded RNA-binding) domain. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain. Contains 1 PAZ domain. Contains 2 RNase III domains
SUBUNIT	Component of the RISC loading complex (RLC), or micro-RNA (miRNA) loading complex (miRLC), which is composed of DICER1, EIF2C2/AGO2 and TARBP2. Note that the trimeric RLC/miRLC is also referred to as RISC. Interacts with DHX9, EIF2C1, PIWIL1 and PRKRA. Associates with the 60S ribosome.
DISEASE	Defects in DICER1 are a cause of pleuropulmonary blastoma (PPB) [MIM:601200]. PPB is a rare pediatric tumor of the lung that arises during fetal lung development and is often part of an inherited cancer syndrome. PPBs contain both epithelial and mesenchymal cells. Early in tumorigenesis, cysts form in lung airspaces, and these cysts are lined with benign-appearing epithelium. Mesenchymal cells susceptible to malignant transformation reside within the cyst walls and form a dense 'cambium' layer beneath the epithelial lining. In a subset of patients, overgrowth of the mesenchymal cells produces a sarcoma, a transition that is associated with a poorer prognosis.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein possessing an RNA helicase motif containing a DEXH box in its amino terminus and an RNA motif in the carboxy terminus. The encoded protein functions as a ribonuclease and is required by the RNA interference and small temporal RNA (stRNA) pathways to produce the active small RNA component that represses gene expression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]

Additional Information

Dilution	WB=1:2000,ICC/IF=1:50-1:250
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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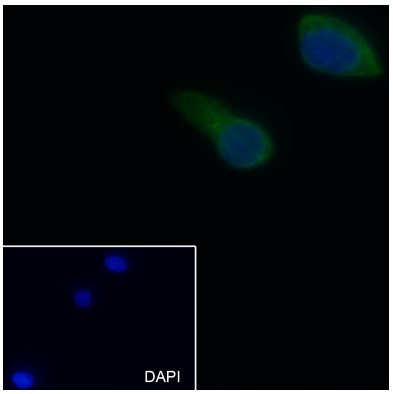
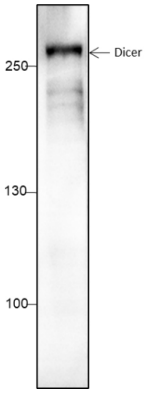
Images



Cell line: HepG2 Fixative: 4% Paraformaldehyde Permeabilization: 0.1% TritonX-100 Primary Ab dilution: 1:250 Primary incubation condition: 4°C overnight Nuclear counter stain: DAPI (Blue) Comment: Color green is the positive signal for AP94350



Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1:2000 Primary Ab incubation condition: 2 hours at room temperature Lysate: 1: HepG2 Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 220 kDa Observed MW: 250 kDa