

Rabbit anti-Human, Mouse DROSHA Polyclonal Antibody | anti-DROSHA antibody

Anti-DROSHA Antibody

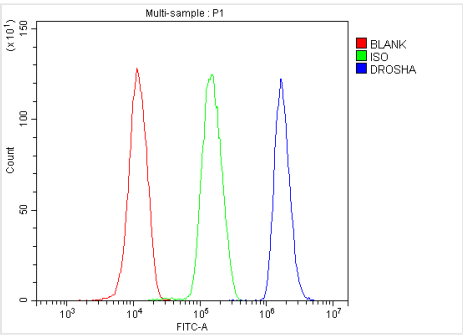
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125517	Rabbit	Human, Mouse	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

DROSHA; Polyclonal Antibody; Anti-DROSHA Antibody; RN3; RNASE3L; RNASEN; Ribonuclease 3; EC 3. 1. 26. 3; Protein Drosha; Ribonuclease III; RNase III; p241; drosha ribonuclease III; anti-DROSHA antibody

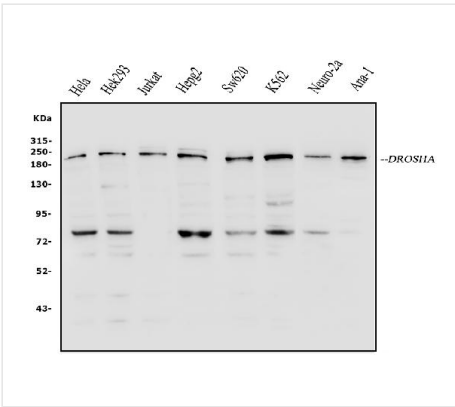
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for DROSHA detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-DROSHA antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human DROSHA recombinant protein (Position: E670-H903).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HL-60 cells using anti-DROSHA antibody (AAA125517).Overlay histogram showing HL-60 cells stained with AAA125517 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DROSHA Antibody (AAA125517,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of DROSHA using anti-DROSHA antibody (AAA125517).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 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human HEK293 whole cell lysatesLane 3: human Jurkat whole cell lysatesLane 4: human HepG2 whole cell lysatesLane 5: human SW620 whole cell lysatesLane 6: human K562 whole cell lysatesLane 7: mouse Neuro-2a whole cell lysatesLane 8: mouse Ana-1 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-DROSHA antigen affinity purified polyclonal antibody (Catalog # AAA125517) at 0. 5 μg/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 1:10000 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 DROSHA at approximately 200KD. The expected band size for DROSHA is at 159KD.

ADDITIONAL INFORMATION

Related Product Information for anti-DROSHA antibody	Drosha is a Class 2 ribonuclease III enzyme that in humans is encoded by the DROSHA (formerly RNASEN) gene. This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer.
References	1. Cheloufi, S., Dos Santos, C. O., Chong, M. M. W., Hannon, G. J. A Dicer-independent miRNA biogenesis pathway that requires Ago catalysis. Nature 465: 584-589, 2010. 2. Davis, B. N., Hilyard, A. C., Lagna, G., Hata, A. SMAD proteins control DROSHA-mediated microRNA maturation. Nature 454: 56-61, 2008. 3. Filippov, V., Solovyev, V., Filippova, M., Gill, S. S. A novel type of RNase III family proteins in eukaryotes. Gene 245: 213-221, 2000.

NCBI AND UNIPROT INFORMATION

NCBI GI #	155030236
NCBI GeneID	29102
NCBI Accession #	NP_001093882.1
NCBI GenBank Nucleotide #	NM_001100412.1
UniProt Accession #	Q9NRR4; Q7Z5V2; Q86YH0; Q9NW73; Q9Y2V9; Q9Y4Y0; E7EMP9
Molecular Weight	159316 MW
NCBI Official Full Name	ribonuclease 3 isoform 2

NCBI Official Synonym Full Names	drosha ribonuclease III
NCBI Official Symbol	DROSHA
NCBI Official Synonym Symbols	RN3; ETOHI2; RNASEN; RANSE3L; RNASE3L; HSA242976
NCBI Protein Information	ribonuclease 3
UniProt Protein Name	Ribonuclease 3
UniProt Gene Name	DROSHA
UniProt Synonym Gene Names	RN3; RNASE3L; RNASEN; RNase III

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/drosha-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125517>