abcam

Product datasheet

Anti-Drosha antibody ab85027

2 References 5 Images

Overview

Product name	Anti-Drosha antibody
Description	Rabbit polyclonal to Drosha
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide, corresponding to a region between residue 1050 and 1100 of human Drosha (NP_037367.3)
Positive control	Human Breast Carcinoma, Ovarian Carcinoma, Prostate Carcinoma tissues and Mouse Teratoma tissue.
General notes	Concentration is optimized for IHC and not determined

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab85027 was affinity purified using an epitope specific to Drosha immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab85027** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

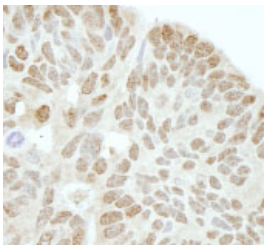
Application	Abreviews	Notes
IHC-P		1/100 - 1/500.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.

Target

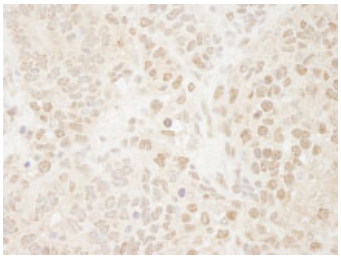
Function	Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies.
Tissue specificity	Ubiquitous.
Sequence similarities	Contains 1 DRBM (double-stranded RNA-binding) domain. Contains 2 RNase III domains.
Domain	The 2 RNase III domains form an intramolecular dimer where the domain 1 cuts the 3'strand while the domain 2 cleaves the 5'strand of pri-miRNAs, independently of each other.
Cellular localization	Nucleus. Nucleus > nucleolus. A fraction is translocated to the nucleolus during the S phase of the cell cycle. Localized in GW bodies (GWBs), also known as P-bodies.

Images



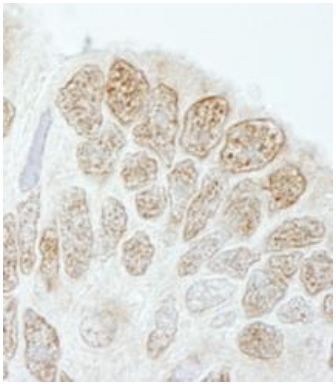
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drosha antibody (ab85027)

ab85027 at 1/250 dilution staining Drosha in human ovarian tumor by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue. Detection: DAB staining.



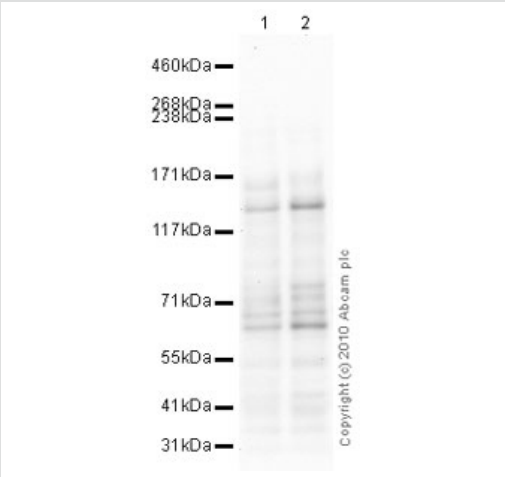
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drosha antibody (ab85027)

ab85027 at 1/250 dilution staining Drosha in mouse teratoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue. Detection: DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Drosha antibody (ab85027)

ab85027 at 1/250 dilution staining Drosha in human ovarian tumor by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue. Detection: DAB staining.



Western blot - Anti-Drosha antibody (ab85027)

All lanes : Anti-Drosha antibody (ab85027) at 1/500 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

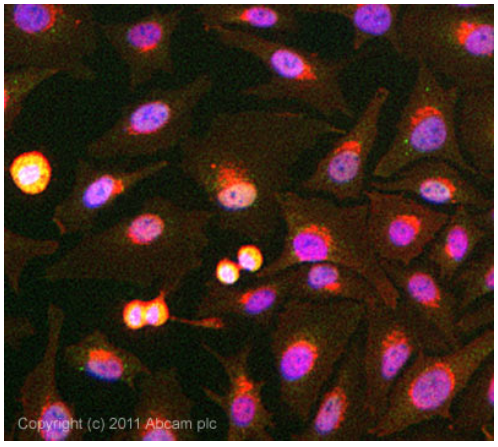
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Observed band size: 145 kDa
Additional bands at: 63 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes



Immunocytochemistry/ Immunofluorescence - Anti-Drosha antibody (ab85027)

ICC/IF image of ab85027 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85027, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h.Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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