abcam

Product datasheet

Anti-Drosha antibody [EPR23046-123] ab242147

重组 RabMAb

1 References 7 图像

概述

产品名称	Anti-Drosha抗体[EPR23046-123]
描述	兔单克隆抗体[EPR23046-123] to Drosha
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), ICC/IF, WB **不适用于:** IHC-P or IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, K562, PC-12, RAW 264.7, C6 and NIH/3T3 whole cell lysates. ICC/IF: RAW 264.7 and NIH/3T3 cells. Flow Cyt (intra): RAW 264.7 and NIH/3T3 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR23046-123

同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab242147于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

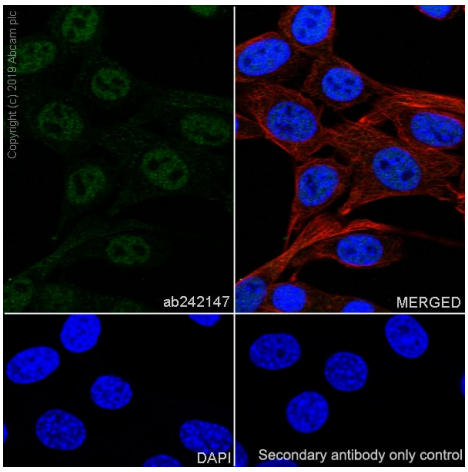
应用	Ab评论	说明
Flow Cyt (Intra)		1/500. Not suitable for Human or Rat.
ICC/IF		1/50. Not suitable for Human or Rat.
WB		1/1000. Detects a band of approximately 158 kDa (predicted molecular weight: 159 kDa).

应用说明 Is unsuitable for IHC-P or IP.

靶标

功能	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.
组织特异性	Ubiquitous.
序列相似性	Contains 1 DRBM (double-stranded RNA-binding) domain. Contains 2 RNase III domains.
结构域	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.
细胞定位	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.

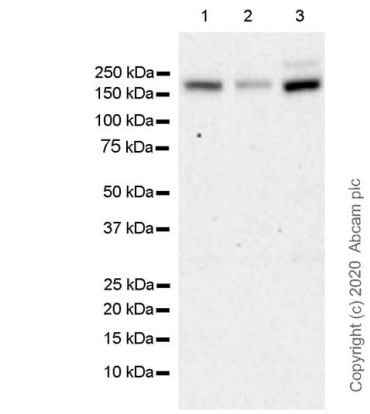
图片



Immunocytochemistry/ Immunofluorescence - Anti-Drosha antibody [EPR23046-123] (ab242147)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized NIH/3T3 cells labelling Drosha with ab242147 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution (Green). Confocal image showing nuclear and weakly cytoplasmic staining in NIH/3T3 cell line. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Western blot - Anti-Drosha antibody [EPR23046-123] (ab242147)

All lanes : Anti-Drosha antibody [EPR23046-123] (ab242147) at 1/1000 dilution

Lane 1 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate
Lane 2 : C6 (rat glial tumor glial cell), whole cell lysate
Lane 3 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

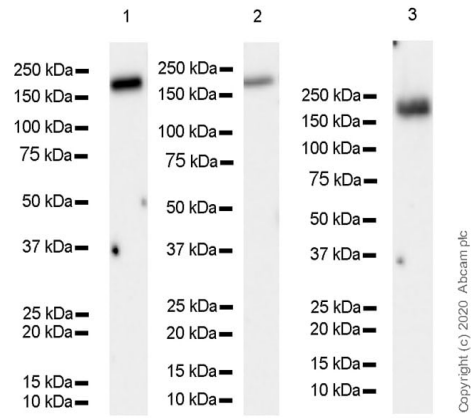
Predicted band size: 159 kDa
Observed band size: 158 kDa

Exposure time: 3 minutes

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Weakly reactivity with undetermined proteins in HeLa.

Exposure time: 3 minutes



Western blot - Anti-Drosha antibody [EPR23046-123] (ab242147)

All lanes : Anti-Drosha antibody [EPR23046-123] (ab242147) at 1/1000 dilution

Lane 1 : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate
Lane 2 : NIH/3T3 (mouse embryonic fibroblast), whole cell lysate
Lane 3 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage), whole cell lysate

Lysates/proteins at 20 µg per lane.

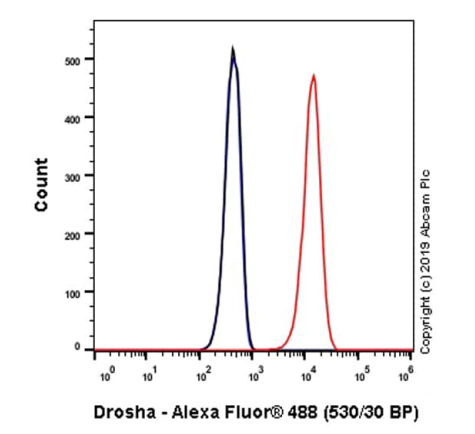
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 159 kDa
Observed band size: 158 kDa

Exposure time: 48 seconds

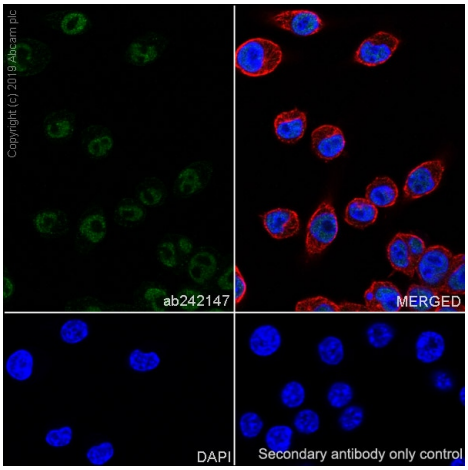
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 48 seconds.



Flow Cytometry (Intracellular) - Anti-Drosha antibody [EPR23046-123] (ab242147)

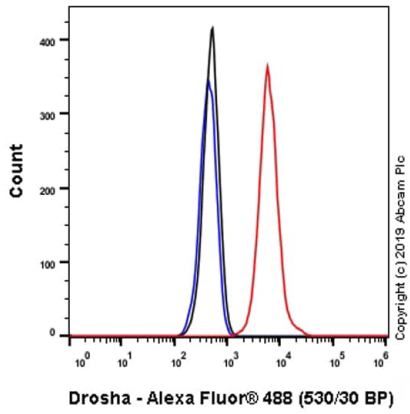
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized NIH/3T3 (Mouse embryonic fibroblast) cells labelling Drosha with ab242147 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Drosha antibody [EPR23046-123] (ab242147)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Raw264.7 cells labelling Drosha with ab242147 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing nuclear and weakly cytoplasmic staining in Raw264.7 cell line. **ab195889** Anti-alpha Tubulin antibody (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Drosha antibody [EPR23046-123] (ab242147)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized Raw 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling Drosha with ab242147 at 1/500 (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Anti-Drosha antibody [EPR23046-123] (ab242147)

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