abcam

Product datasheet

Anti-Drosha antibody [EPR23046-123] ab242147

リコンビナント RabMAb

1 References 画像数 7

製品の概要

製品名	Anti-Drosha antibody [EPR23046-123]
製品の詳細	Rabbit monoclonal [EPR23046-123] to Drosha
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), ICC/IF, WB **適用なし:** IHC-P or IP
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	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.
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR23046-123

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab242147の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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).

追加情報 Is unsuitable for IHC-P or IP.

ターゲット情報

機能 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.

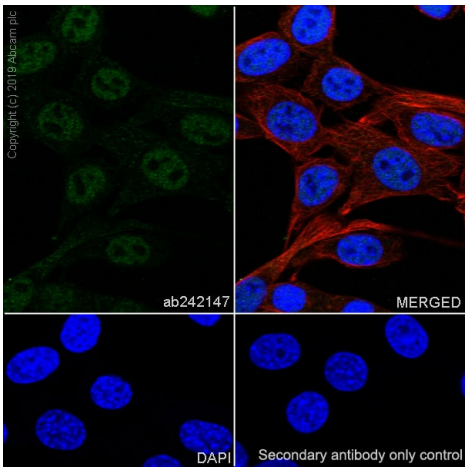
組織特異性 Ubiquitous.

配列類似性 Contains 1 DRBM (double-stranded RNA-binding) domain.
Contains 2 RNase III domains.

ドメイン 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.

細胞内局在 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.

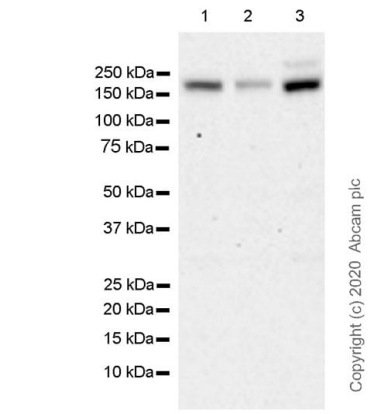
画像



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

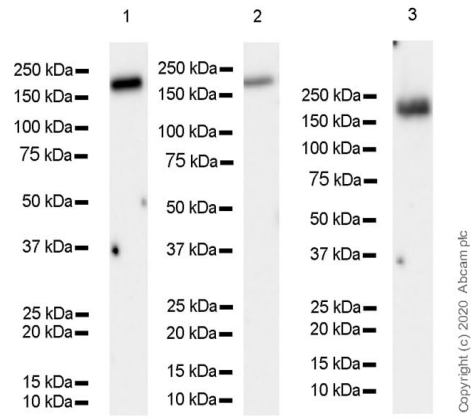
Predicted band size: 159 kDa
Observed band size: 158 kDa

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.

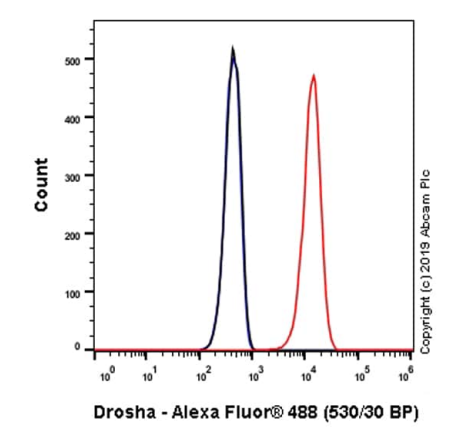
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

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

Exposure time: 48 seconds

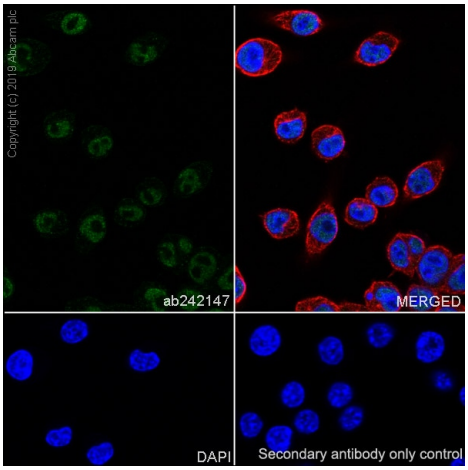
Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 48 seconds.



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

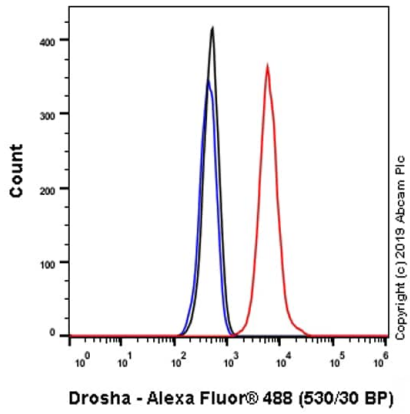
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized NIH/3T3 (Mouse embryonic fibroblast) cells labelling Drosha with ab242147 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells 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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