abcam

Product datasheet

Anti-non-muscle Myosin IIA antibody [EPR8965] ab138498

敲除验证 重组 RabMAb

★★★★★ 1 Abreviews 8 References 8 图像

概述

产品名称	Anti-non-muscle Myosin IIA抗体[EPR8965]
描述	兔单克隆抗体[EPR8965] to non-muscle Myosin IIA
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, IHC-P, ICC/IF **不适用于:** IP
种属反应性	**与反应:** Human
免疫原	Synthetic peptide within Human non-muscle Myosin IIA aa 1900-2000. The exact sequence is proprietary.
阳性对照	HeLa, HT-29, Jurkat, HUVEC, Human fetal kidney, and A431 lysates, Human kidney and Human lung tissues, A431 and HeLa 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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR8965
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab138498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)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 230 kDa (predicted molecular weight: 227 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

应用说明 Is unsuitable for IP.

靶标

功能 Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping.

组织特异性 In the kidney, expressed in the glomeruli. Also expressed in leukocytes.

疾病相关 Defects in MYH9 are the cause of May-Hegglin anomaly (MHA) [MIM:155100]. MHA is an autosomal dominant macrothrombocytopenia characterized by thrombocytopenia, giant platelets and leukokyte inclusions appearing as highly parallel paracrystalline bodies.
Defects in MYH9 are the cause of Sebastian syndrome (SBS) [MIM:605249]. SBS is an autosomal dominant macrothrombocytopenia characterized by thrombocytopenia, giant platelets and leukocyte inclusions that are smaller and less organized than in May-Hegglin anomaly.
Defects in MYH9 are the cause of Fechtner syndrome (FTNS) [MIM:153640]. FTNS is an autosomal dominant macrothrombocytopenia characterized by thrombocytopenia, giant platelets and leukocyte inclusions that are small and poorly organized. Additionally, FTNS is distinguished by Alport-like clinical features of sensorineural deafness, cataracts and nephritis.
Defects in MYH9 are the cause of Alport syndrome with macrothrombocytopenia (APSM) [MIM:153650]. APSM is an autosomal dominant disorder characterized by the association of ocular lesions, sensorineural hearing loss and nephritis (Alport syndrome) with platelet defects.
Defects in MYH9 are the cause of Epstein syndrome (EPS) [MIM:153650]. EPS is an autosomal dominant disorder characterized by the association of macrothrombocytopathy, sensorineural hearing loss and nephritis.
Defects in MYH9 are the cause of deafness autosomal dominant type 17 (DFNA17) [MIM:603622]. DFNA17 is a form of sensorineural hearing loss. Sensorineural deafness results

from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. DFNA17 is characterized by progressive hearing impairment and cochleosaccular degeneration.
Defects in MYH9 are the cause of macrothrombocytopenia with progressive sensorineural deafness (MPSD) [MIM:600208]. MPSD is an autosomal dominant disorder characterized by the association of macrothrombocytopathy and progressive sensorineural hearing loss without renal dysfunction.
Note=Subjects with mutations in the motor domain of MYH9 present with severe thrombocytopenia and develop nephritis and deafness before the age of 40 years, while those with mutations in the tail domain have a much lower risk of noncongenital complications and significantly higher platelet counts. The clinical course of patients with mutations in the four most frequently affected residues of MYH9 (responsible for 70% of MYH9-related cases) were evaluated. Mutations at residue 1933 do not induce kidney damage or cataracts and cause deafness only in the elderly, those in position 702 result in severe thrombocytopenia and produce nephritis and deafness at a juvenile age, while alterations at residue 1424 or 1841 result in intermediate clinical pictures.
Note=Genetic variations in MYH9 are associated with non-diabetic end stage renal disease (ESRD).

序列相似性

Contains 1 IQ domain.
Contains 1 myosin head-like domain.

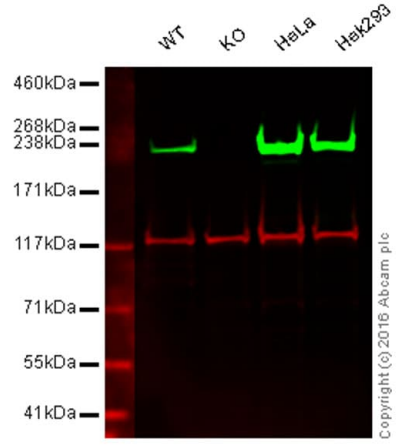
结构域

The rodlike tail sequence is highly repetitive, showing cycles of a 28-residue repeat pattern composed of 4 heptapeptides, characteristic for alpha-helical coiled coils.

翻译后修饰

ISGylated.

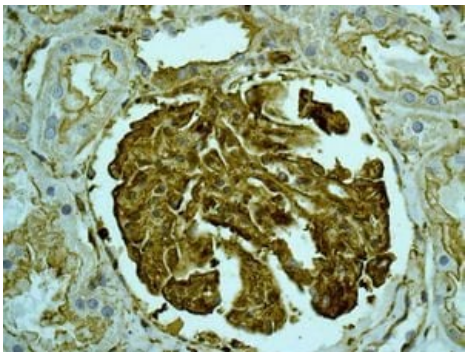
图片



Western blot - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: non-muscle Myosin IIA knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: HEK293 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab138498 observed at 230 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

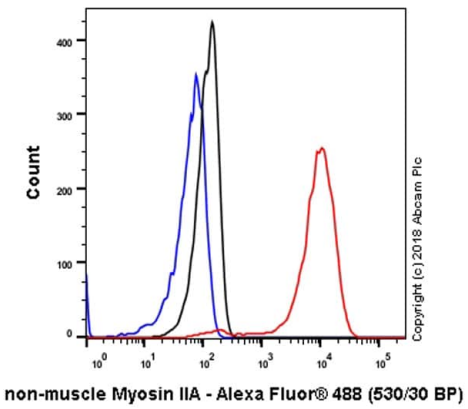
ab138498 was shown to specifically react with non-muscle Myosin IIA in wild-type HAP1 cells. No band was observed when non-muscle Myosin IIA knockout samples were examined. Wild-type and non-muscle Myosin IIA knockout samples were subjected to SDS-PAGE. ab138498 at a dilution of 1/1000 and **ab18058** (loading control to Vinculin) at a dilution of 1/10,000 were incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

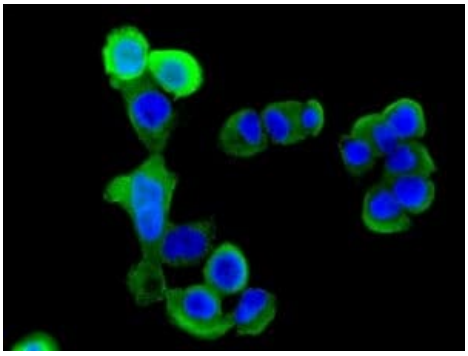
Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling non-muscle Myosin IIA with ab138498 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



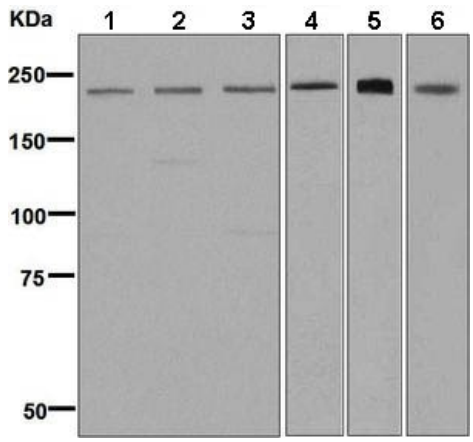
Flow Cytometry (Intracellular) - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling non-muscle Myosin IIA with purified ab138498 at 1/20 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cells without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

Immunofluorescent analysis of A431 cells labelling non-muscle Myosin IIA with ab138498 at 1/250 dilution.



Western blot - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

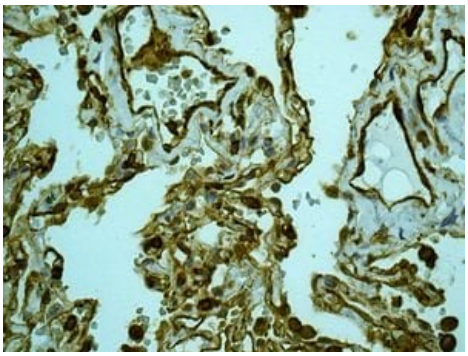
All lanes : Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498) at 1/1000 dilution

Lane 1 : HeLa lysate
Lane 2 : HT-29 lysate
Lane 3 : Jurkat lysate
Lane 4 : HUVEC lysate
Lane 5 : Human fetal kidney lysate
Lane 6 : A431 lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

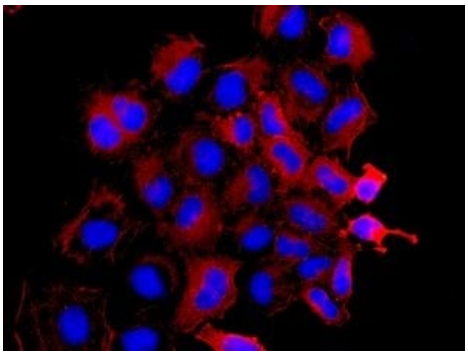
Predicted band size: 227 kDa
Observed band size: 230 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

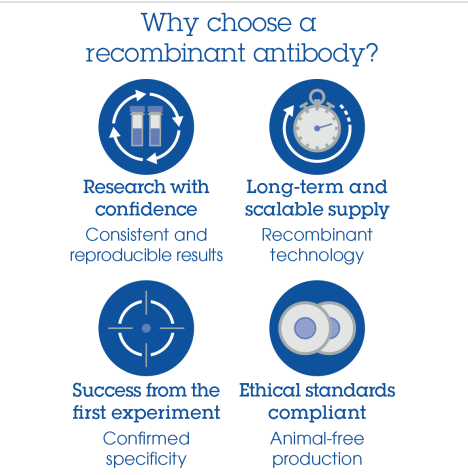
Immunohistochemical analysis of paraffin embedded Human lung tissue labelling non-muscle Myosin IIA with ab138498 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

Immunofluorescent analysis of HeLa cells labelling non-muscle Myosin IIA with ab138498 at 1/250 dilution.



Anti-non-muscle Myosin IIA antibody [EPR8965] (ab138498)

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