abcam

Product datasheet

Anti-KIFC1 antibody [11445] - BSA and Azide free ab235994

敲除验证 重组 RabMAb

9 图像

概述

产品名称	Anti-KIFC1抗体[11445] - BSA and Azide free
描述	兔单克隆抗体[11445] to KIFC1 - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), IP, ICC/IF, IHC-P, WB
种属反应性	**与反应:** Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, HepG2 and HAP1 cell lysates IHC-P: Human tonsil tissue, cervical carcinoma, stomachICC/IF: HeLa cells Flow Cyt (intra): HeLa Cells IP: Jurkat whole cell lysates
常规说明	ab235994 is the carrier-free version of **ab172620**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	11445
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab235994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。

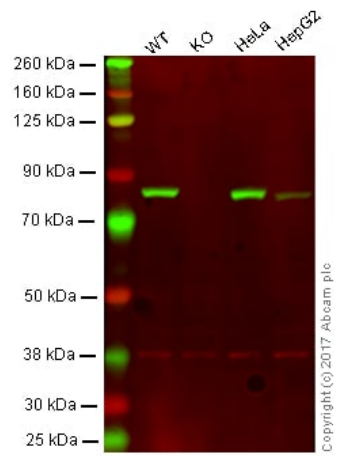
应用	Ab评论	说明
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
WB		Use at an assay dependent concentration. Predicted molecular weight: 74 kDa.

靶标

功能	Minus end-directed microtubule-dependent motor required for bipolar spindle formation. May contribute to movement of early endocytic vesicles.
序列相似性	Belongs to the kinesin-like protein family. NCD subfamily. Contains 1 kinesin-motor domain.
细胞定位	Nucleus. Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > spindle. Early endosome. Associated with nucleus during interphase, centrosomes in early and spindle in later mitosis.

图片

图片



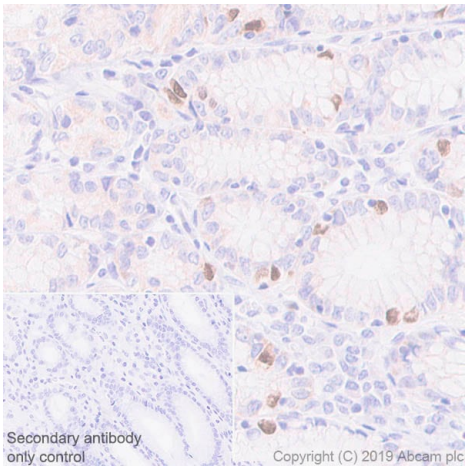
Western blot - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: KIFC1 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: HepG2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - **ab172620** (unpurified) observed at 74 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab172620 was shown to specifically react with KIFC1 in wild-type cells as signal was lost in KIFC1 knockout cells. Wild-type and KIFC1 knockout samples were subjected to SDS-PAGE. Ab172620 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 0.228 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

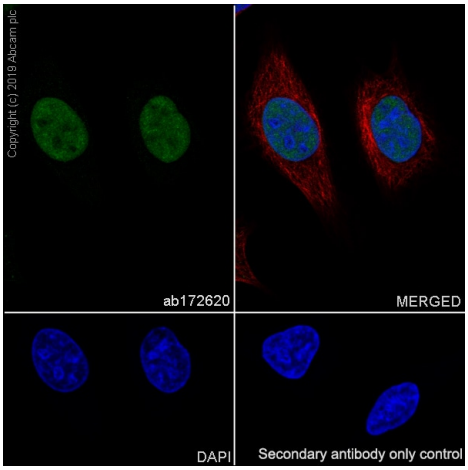
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human stomach tissue sections labeling KIFC1 with purified **ab172620** at 1/16000 dilution (0.01 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

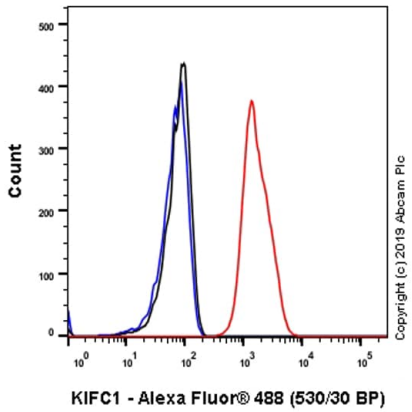
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunocytochemistry/ Immunofluorescence - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling KIFC1 with purified **ab172620** at 1/50 dilution (4.0 µg/ml). Cells were fixed in 100% Methanol. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 (2.5 µg/ml) dilution. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

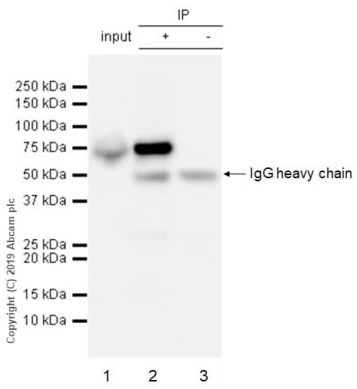
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Flow Cytometry (Intracellular) - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling KIFC1 with purified **ab172620** at 1/20 dilution (10µg/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 - Cell without incubation with primary antibody and secondary antibody (Blue).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunoprecipitation - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

ab172620 (purified) at 1/20 dilution (1ug) immunoprecipitating KIFC1 in Jurkat whole cell lysates.

Lane 1: Jurkat (Human T cell leukemia T lymphocyte) whole cell lysates 10ug

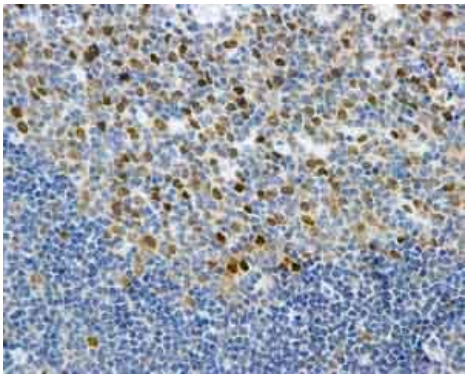
Lane 2 (+): **ab172620** & Jurkat whole cell lysates

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab172620** in Jurkat whole cell lysates

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.

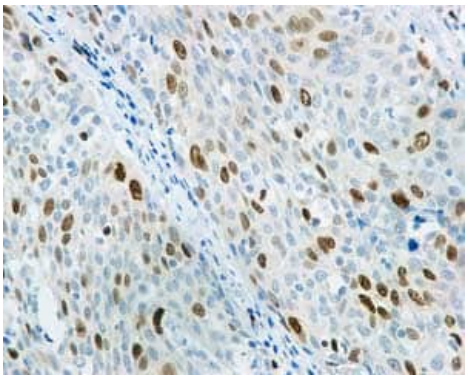
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue laneling KIFC1 with **ab172620** (unpurified) at 1/50 dilution.

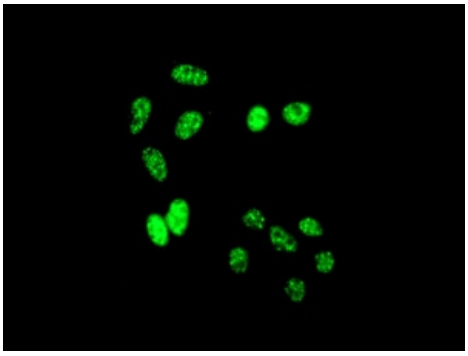
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma tissue labeling KIFC1 with **ab172620** (unpurified) at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).



Immunocytochemistry/ Immunofluorescence - Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

Immunofluorescent staining of HeLa cells labeling KIFC1 with **ab172620** (unpurified) at 1/50 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab172620**).

Anti-KIFC1 antibody [11445] - BSA and Azide free (ab235994)

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