abcam

ab23950

Anti-RASSF1a antibody [3F3]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 10% Glycerol (glycerin, glycerine)
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human RASSF1. Database link Q9NS23
Clone number	3F3
Purification technique	Affinity purification Protein G
Specificity	In many cases, the results of staining showed speckled pattern or weak staining in cytoplasm but we couldn't observe microtubule stained with this antibody. In mitotic cell, we could observe the mitotic spindles stained with this antibody and so thought it was kinetochore stained specifically.
Epitope	ab23950 specifically recognises the C1 domain (52-101aa) of RASSF1a
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse
Dilution info	-
Notes	-

ELISA

Expected

Species	Mouse, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/2000
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

IHC-P

Expected

Species	Mouse, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100
Notes	Use at an assay dependent dilution. Use a biotinylated secondary antibody and Texas-red conjugated streptavidin. Use 4% paraformaldehyde as fixative for 20min and permeabilize in 0.4% Triton X-100.

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information RASSF1

Function Potential tumor suppressor. Required for death receptor-dependent apoptosis. Mediates activation of STK3/MST2 and STK4/MST1 during Fas-induced apoptosis by preventing their dephosphorylation. When associated with MOAP1, promotes BAX conformational change and translocation to mitochondrial membranes in response to TNF and TNFSF10 stimulation. Isoform A interacts with CDC20, an activator of the anaphase-promoting complex, APC, resulting in the inhibition of APC activity and mitotic progression. Inhibits proliferation by negatively regulating cell cycle progression at the level of G1/S-phase transition by regulating accumulation of cyclin D1 protein. Isoform C has been shown not to perform these roles, no function has been identified for this isoform. Isoform A disrupts interactions among MDM2, DAXX and USP7, thus contributing to the efficient activation of TP53 by promoting MDM2 self-ubiquitination in cell-cycle checkpoint control in response to DNA damage.

Storage

Shipped at conditions Blue Ice

Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot

Notes

This product was changed from ascites to tissue culture supernatant on 28/02/19. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

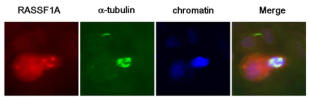
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

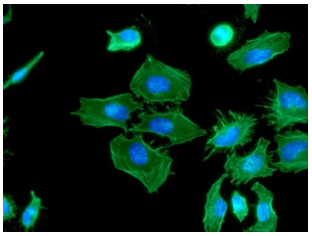
5 product images



Immunocytochemistry/ Immunofluorescence - Anti-RASSF1a antibody [3F3] (ab23950)

RASSF1a Immunocytochemistry/ Immunofluorescence staining using mouse Anti-RASSF1a antibody

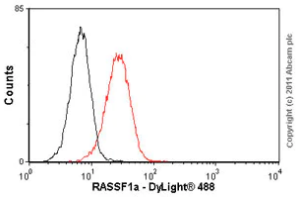
A431 cells were labeled with anti-RASSF1a(clone 3F3) ab23950. Detection was done using a biotinylated secondary antibody and Texas-red conjugated streptavidin.
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-RASSF1a antibody [3F3] (ab23950)

RASSF1a Immunocytochemistry/ Immunofluorescence staining using mouse Anti-RASSF1a antibody

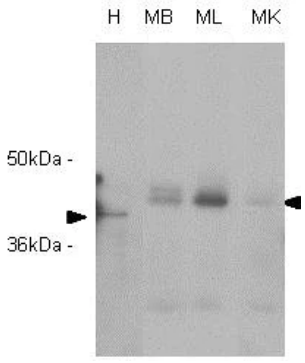
Immunocytochemistry/ Immunofluorescence analysis of RASSF1a in HeLa cells. The cell was stained with ab23950 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Flow Cytometry - Anti-RASSF1a antibody [3F3] (ab23950)

RASSF1a Flow Cytometry staining using mouse Anti-RASSF1a antibody

Overlay histogram showing HeLA cells stained with ab23950 (red line). The cells were fixed with 100% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab23950, 2µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.
This image was generated using the ascites version of the product.



Western blot - Anti-RASSF1a antibody [3F3] (ab23950)

Arrows indicate RASSF1A protein (about 40kDa in Hela cells, and 43kDa in other tissues from mice).
This image was generated using the ascites version of the product.

All lanes:
Western blot - Anti-RASSF1a antibody [3F3] (ab23950) at 1/1000 dilution

Lane 1:
Hela (H) cell extract at 20 µg

Lane 2:
Mouse brain (MB) extract at 20 µg

Lane 3:
Mouse liver (ML) extract at 20 µg

Lane 4:
Mouse kidney (MK) extract at 20 µg

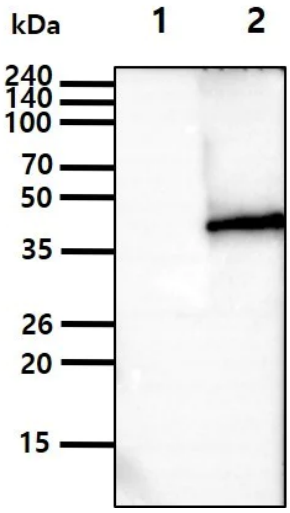
Secondary

All lanes:
Goat anti-mouse HRP conjugate

Developed using the ECL technique.

Predicted band size: 39 kDa

Observed band size: 40 kDa, 43 kDa



Western blot - Anti-RASSF1a antibody [3F3] (ab23950)

All lanes:
Western blot - Anti-RASSF1a antibody [3F3] (ab23950) at 1/500 dilution

Lane 1:
293T cell lysate at 5 µg

Lane 2:
RASSF1A transfected 293T cell lysate at 5 µg

Secondary

All lanes:
goat anti-mouse secondary antibody conjugated to HRP

Predicted band size: 39 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.