

RASSF1A Antibody

Catalog # ABV11952

Product Information

Application	WB, IP, IHC
Primary Accession	Q9NS23
Reactivity	Human, Mouse
Host	Mouse
Isotype	Mouse IgM κ
Clone Names	C10
Calculated MW	39219

Additional Information

Gene ID	11186
Positive Control	WB; HCT116, ModeK, 4T1 cell lysate, mouse colon tissue, IH: mouse and human colon tissue
Application & Usage	WB- 1:50, IHC- 1:50, IP- 1.5 μ g
Other Names	Ras association domain-containing protein 1, 123F2, NORE2A, RASSF1, RDA32, REH3P21
Target/Specificity	RASSF1
Antibody Form	Liquid
Appearance	Colorless liquid
Handling	The antibody solution should be gently mixed before use
Reconstitution & Storage	-20°C
Background Descriptions	
Precautions	RASSF1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RASSF1 {ECO:0000312 EMBL:AAF35128.2}
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.

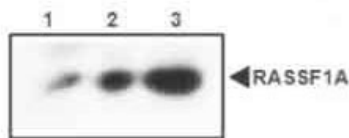
Cellular Location

[Isoform A]: Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Nucleus Note=Localizes to cytoplasmic microtubules during interphase, to bipolar centrosomes associated with microtubules during prophase, to spindle fibers and spindle poles at metaphase and anaphase, to the midzone during early telophase, and to the midbody in late telophase in cells. Colocalizes with MDM2 in the nucleus

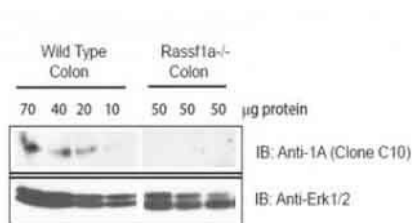
Tissue Location

Isoform A and isoform C are ubiquitously expressed in all tissues tested, however isoform A is absent in many corresponding cancer cell lines. Isoform B is mainly expressed in hematopoietic cells.

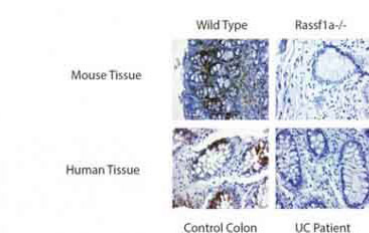
Images



WB analysis of RASSF1A Antibody in: Lane 1:HCT116 cell lysate Lane 2: ModeK cell lysate Lane 3: 4T1 cell lysate



WB detection of endogenous RASSF1A in mouse | colon tissues from a wild type colon tissue sample (decreasing amounts shown) and from three independently isolated RASSF1A-/- knockout colon tissues using RASSF1A antibody



Analysis of RASSF1A immunostaining in mouse and human colon tissues via immunohistochemical analysis using RASSF1A antibody

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