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Anti-ASF1A Antibody

Catalog # ABV11958

Product Information

Application	WB
Primary Accession	Q9Y294
Reactivity	Human, Mouse, Rat
Host	Rabbit
Isotype	Rabbit IgG
Calculated MW	22969

Additional Information

Gene ID	25842
Positive Control	WB: Jurkat, A549, MCF7, mouse lung, rat lung lysate
Application & Usage	WB; 1:500 – 1:2000, IF/IC; 1:50 – 1:100
Other Names	Histone chaperone ASF1A, Anti-silencing function protein 1 homolog A, hAsf1, hAsf1a, CCG1-interacting factor A, CIA, hCIA
Target/Specificity	ASF1A
Antibody Form	Liquid
Appearance	Colorless liquid
Handling	The antibody solution should be gently mixed before use
Reconstitution & Storage	-20°C
Background Descriptions	
Precautions	Anti-ASF1A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

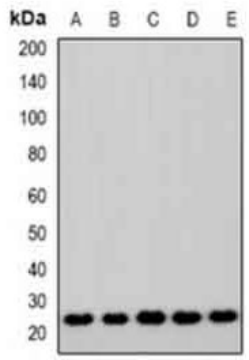
Name	ASF1A {ECO:0000303|PubMed:10759893, ECO:0000312|HGNC:HGNC:20995}
Function	Histone chaperone that facilitates histone deposition and histone exchange and removal during nucleosome assembly and disassembly (PubMed:10759893, PubMed:11897662, PubMed:12842904, PubMed:14718166, PubMed:15664198, PubMed:16151251, PubMed:21454524). Cooperates with chromatin assembly factor 1 (CAF-1) to promote replication-dependent chromatin assembly and with HIRA to promote replication-independent chromatin assembly (PubMed:11897662, PubMed:14718166, PubMed:15664198). Promotes homologous recombination-mediated repair of double-strand breaks (DSBs) at stalled or

collapsed replication forks: acts by mediating histone replacement at DSBs, leading to recruitment of the MMS22L-TONSL complex and subsequent loading of RAD51 (PubMed:29478807). Also involved in the nuclear import of the histone H3-H4 dimer together with importin-4 (IPO4): specifically recognizes and binds newly synthesized histones with the monomethylation of H3 'Lys-9' and acetylation at 'Lys-14' (H3K9me1K14ac) marks, and diacetylation at 'Lys-5' and 'Lys-12' of H4 (H4K5K12ac) marks in the cytosol (PubMed:21454524, PubMed:29408485). Required for the formation of senescence-associated heterochromatin foci (SAHF) and efficient senescence-associated cell cycle exit (PubMed:15621527).

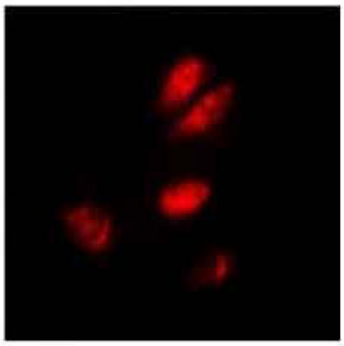
Cellular Location Nucleus. Chromosome

Tissue Location Ubiquitously expressed.

Images



WB analysis of ASF1A expression in Jurkat (A); A549 (B); MCF7 (C); mouse lung (D); rat lung (E) whole cell lysates



Immunofluorescent analysis of ASF1A staining in A549 cells

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