

Anti-ASF1A Antibody
Catalog # ABV11958**Specification**

Anti-ASF1A Antibody - Product Information

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

Anti-ASF1A Antibody - 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.

Anti-ASF1A Antibody - 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](http://www.uniprot.org/citations/10759893)), PubMed:[11897662](http://www.uniprot.org/citations/11897662)), PubMed:[12842904](http://www.uniprot.org/citations/12842904)), PubMed:[14718166](http://www.uniprot.org/citations/14718166)), PubMed:[15664198](http://www.uniprot.org/citations/15664198)), PubMed:[16151251](http://www.uniprot.org/citations/16151251)), PubMed:[21454524](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/11897662)), PubMed:[14718166](http://www.uniprot.org/citations/14718166)), PubMed:[15664198](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/21454524)), PubMed:[29408485](http://www.uniprot.org/citations/29408485)). Required for the formation of senescence-associated heterochromatin foci (SAHF) and efficient senescence-associated cell cycle exit (PubMed:[15621527](http://www.uniprot.org/citations/15621527)).

Cellular Location

Nucleus. Chromosome

Tissue Location

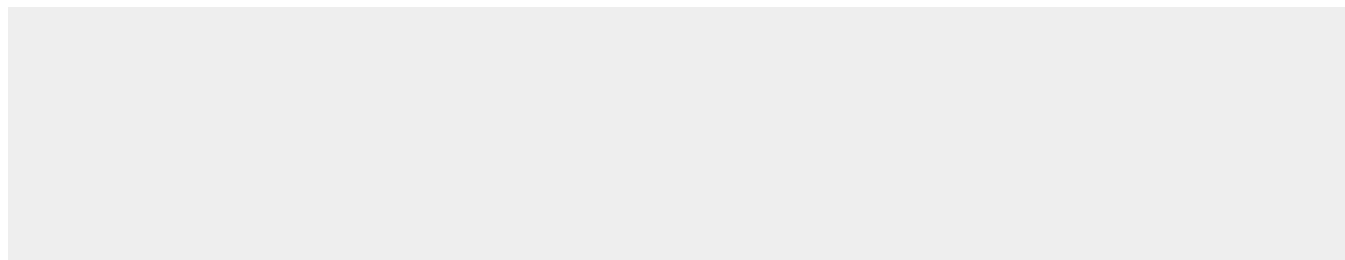
Ubiquitously expressed.

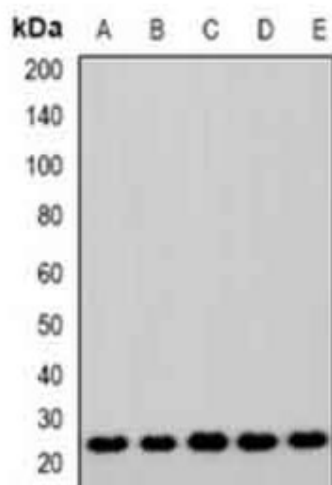
Anti-ASF1A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

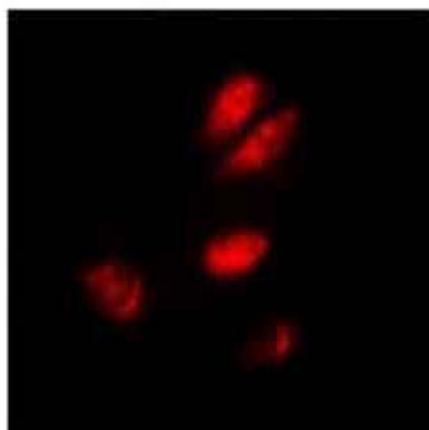
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ASF1A Antibody - 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