

Rabbit anti-Human ASF1B Monoclonal Antibody | anti-ASF1B antibody

Recombinant Anti-ASF1B Antibody, Rabbit Monoclonal

CATALOG # AAA255762	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

ASF1B; Monoclonal Antibody; Recombinant Anti-ASF1B Antibody; Rabbit Monoclonal; ASF1B Antibody; Rabbit MAb; anti-silencing function 1B histone chaperone; Anti-CIA-II Antibody; anti-ASF1B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	004
Specificity	Human ASF1B
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ASF1B antibody	IP (Immunoprecipitation), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human ASF1B Protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human ASF1B (rh ASF1B).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-ASF1B rabbit monoclonal antibody at 1:500 dilution Lane A: K562 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 22 kDa



IP (Immunoprecipitation)

ASF1B was immunoprecipitated using: Lane A: 0.5 mg K562 Whole Cell Lysate 0.5 uL anti-ASF1B rabbit monoclonal antibody and 60 ug of Immunomagnetic beads Protein G. Primary antibody: Anti-ASF1B rabbit monoclonal antibody, at 1:500 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa Observed band size: 22 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-ASF1B antibody	The histone chaperone anti-silencing factor 1a (ASF1a) interacts with MDC1 and is recruited to sites of DSBs to facilitate the interaction of phospho-ATM with MDC1 and phosphorylation of MDC1, which are required for the recruitment of RNF8/RNF168 histone ubiquitin ligases. Thus, ASF1a deficiency reduces histone ubiquitination at DSBs, decreasing the recruitment of 53BP1, and decreases NHEJ, rendering cells more sensitive to DSBs. This role of ASF1a in DSB repair cannot be provided by the closely related ASF1b and does not require its histone chaperone activity. Homozygous deletion of ASF1A is seen in 10%-15% of certain cancers, suggesting that loss of NHEJ may be selected in some malignancies and that the deletion can be used as a molecular biomarker for cancers susceptible to radiotherapy or to DSB-inducing chemotherapy. Anti-silencing function 1 (ASF1) is a histone H3-H4 chaperone involved in DNA replication and repair, and transcriptional regulation. Here, we identify ASF1B, the mammalian paralog to ASF1, as a proliferation-inducing histone chaperone in human beta-cells. Overexpression of ASF1B led to distinct transcriptional signatures consistent with increased cellular proliferation and reduced cellular death.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	8922549
NCBI GeneID	55723
NCBI Accession #	NP_060624.1
NCBI GenBank Nucleotide #	NM_018154.2
UniProt Accession #	Q9NVP2; Q53G51; Q9NVZ0
Molecular Weight	22,434 Da
NCBI Official Full Name	histone chaperone ASF1B
NCBI Official Synonym Full Names	anti-silencing function 1B histone chaperone
NCBI Official Symbol	ASF1B
NCBI Official Synonym Symbols	CIA-II
NCBI Protein Information	histone chaperone ASF1B; hAsf1; hAsf1b; hCIA-II; CCG1-interacting factor A-II; ASF1 anti-silencing function 1 homolog B; anti-silencing function protein 1 homolog B
UniProt Protein Name	Histone chaperone ASF1B
UniProt Gene Name	ASF1B
UniProt Synonym Gene Names	hAsf1; hAsf1b; CIA-II; hCIA-II
UniProt Entry Name	ASF1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.