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[Marker Primary Antibody]

Rabbit Anti-ASF1A/AF647 Conjugated antibody

Catalog Number: SL3777R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ASF1A/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human ASF1A
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1ug/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Pig,Cow)
Background:	background: ASF1a belongs to the H3/H4 family of histone chaperone proteins. The protein is a key component of a histone donor complex that functions in nucleosome assembly. It interacts with histones H3 and H4, and functions together with a chromatin assembly factor during DNA replication, repair and silencing. **Function:** Histone chaperone that facilitates histone deposition and histone exchange and removal during nucleosome assembly and disassembly. Cooperates with chromatin assembly factor 1 (CAF-1) to promote replication-dependent chromatin assembly and with HIRA to promote replication-independent chromatin assembly. Required for the formation of senescence-associated heterochromatin foci (SAHF) and efficient senescence-associated cell cycle exit. **Subunit:** Interacts with histone H3 (including both histone H3.1 and H3.3) and histone H4. Interacts with the CHAF1A, CHAF1B and RBBP4 subunits of

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	the CAF-1 complex. Interacts with CABIN1, HAT1, HIRA, NASP, TAF1, TLK1, TLK2 and UBN1. Interacts with CDAN1. Found in a cytosolic complex with CDAN1, ASF1B, IPO4 and histones H3.1 and H4. **Subcellular Location:** Nucleus. **Tissue Specificity:** Ubiquitously expressed. **Post-translational modifications:** Phosphorylated by TLK1 and TLK2. Highly phosphorylated in S-phase and at lower levels in M-phase. TLK2-mediated phosphorylation at Ser-192 prevents proteasome-dependent degradation. **Similarity:** Belongs to the ASF1 family. **Database links:** **Entrez Gene:** 25842 Human **Entrez Gene:** 66403 Mouse **Entrez Gene:** 294408 Rat Omim: 609189 Human **SwissProt:** Q9Y294 Human **SwissProt:** Q9CQE6 Mouse **Unigene:** 292316 Human **Unigene:** 272989 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. ASF1a can promote cellular senescence and is required for senescence-associated cell cycle arrest. The formation of SAHF mediated by HIRA/ASF1a directly promotes cells to exit the cell cycle and enter senescence. Researchers have also speculated that alterations in HIRA and ASF1a may prevent cells from exiting the cell cycle and may lead to cancer.