10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ASF1B

Purified Mouse Monoclonal Antibody
Catalog # AO2520a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q9NVP2
Reactivity	Human, Mouse, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	6G7G4
Isotype	Mouse IgG1
Calculated MW	22434
Immunogen	Purified recombinant fragment of human ASF1B (AA: 1-202) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	55723
Other Names	CIA-II
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ASF1B is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ASF1B {ECO:0000303|PubMed:11470414, ECO:0000312|HGNC:HGNC:20996}
Function	Histone chaperone that facilitates histone deposition and histone exchange and removal during nucleosome assembly and disassembly (PubMed:11897662, PubMed:14718166, PubMed:15664198, PubMed:16151251, PubMed:21454524, PubMed:26527279). Cooperates with chromatin assembly factor 1 (CAF-1) to promote replication-dependent chromatin assembly (PubMed:11897662, PubMed:14718166, PubMed:15664198, PubMed:16151251). 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' (H3K9me1) and diacetylation at 'Lys-5' and 'Lys-12' of H4 (H4K5K12ac) marks in the cytosol (PubMed:20953179, PubMed:21454524, PubMed:26527279). Does not participate in replication-independent nucleosome deposition which is mediated by ASF1A and HIRA (PubMed:11897662, PubMed:14718166, PubMed:15664198, PubMed:16151251). Required for gonad development (PubMed:12842904).
Cellular Location	Nucleus. Cytoplasm, cytosol
Tissue Location	Highly expressed in testis and at lower levels in colon, small intestine and thymus.

References

1.EMBO J. 2011 Feb 2;30(3):480-93. 2.Mol Cell Biol. 2008 Jun;28(11):3672-85.

Images

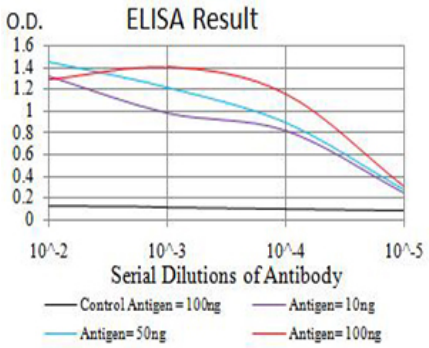


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

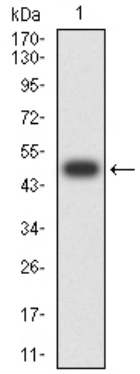


Figure 2:Western blot analysis using ASF1B mAb against human ASF1B (AA: 1-202) recombinant protein. (Expected MW is 48.4 kDa)

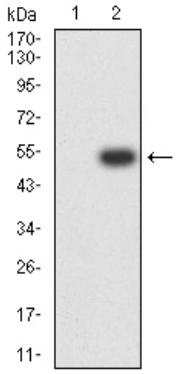


Figure 3:Western blot analysis using ASF1B mAb against HEK293 (1) and ASF1B (AA: 1-202)-hIgGFc transfected HEK293 (2) cell lysate.

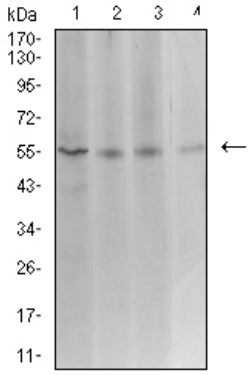


Figure 4:Western blot analysis using ASF1B mouse mAb against Hela (1), COS7 (2), HCT116 (3), and CHO3D10 (4) cell lysate.

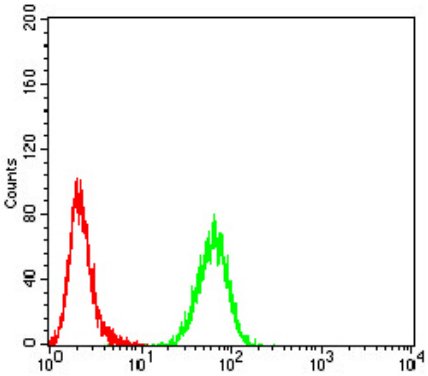


Figure 5:Flow cytometric analysis of K562 cells using ASF1B mouse mAb (green) and negative control (red).

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