

KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1613**Specification****KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P55209
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 45 kDa, observed , 52 kDa KDa
Gene Name	NAP1L1
Aliases	Nucleosome Assembly Protein 1 Like 1; NRP; Nucleosome Assembly Protein 1-Like 1; NAP1L; NAP1; NAP-1-Related Protein; MGC23410; MGC8688; HSP22-Like Protein Interacting Protein; HNRP
Immunogen	A synthesized peptide derived from human NAP1L1

KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	4673
Other Names	
Nucleosome assembly protein 1-like 1, NAP-1-related protein, hNRP, NAP1L1, NRP	

KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody - Protein Information**Name** NAP1L1**Synonyms** NRP**Function**

Histone chaperone that plays a role in the nuclear import of H2A-H2B and nucleosome assembly (PubMed: [20002496](http://www.uniprot.org/citations/20002496), PubMed: [21211722](http://www.uniprot.org/citations/21211722), PubMed: [26841755](http://www.uniprot.org/citations/26841755)). Also participates in several important DNA repair mechanisms: greatly enhances ERCC6-mediated chromatin remodeling which is essential for transcription-coupled nucleotide excision DNA repair (PubMed: [28369616](http://www.uniprot.org/citations/28369616)). Also stimulates homologous recombination (HR) by RAD51 and RAD54 which is essential in mitotic DNA double strand break (DSB) repair (PubMed: [24798879](http://www.uniprot.org/citations/24798879)). Plays a key role in the regulation of embryonic neurogenesis (By similarity). Promotes the proliferation of neural progenitors and inhibits neuronal differentiation during cortical development (By similarity). Regulates neurogenesis via the modulation of RASSF10; regulates RASSF10 expression by promoting SETD1A-mediated H3K4 methylation at the RASSF10 promoter (By similarity).

Cellular Location

Nucleus. Melanosome. Cytoplasm. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location

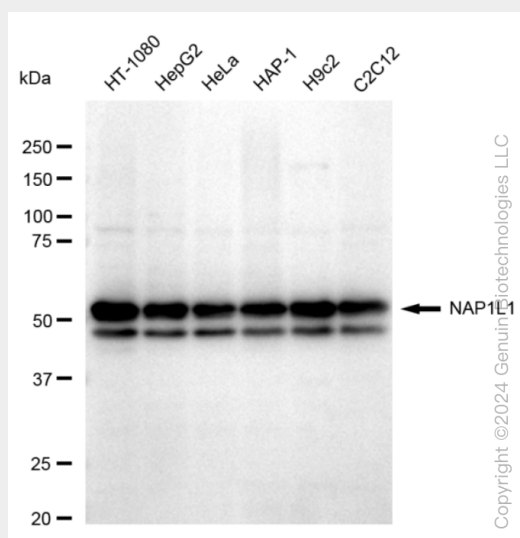
Ubiquitously expressed.

KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody - Protocols

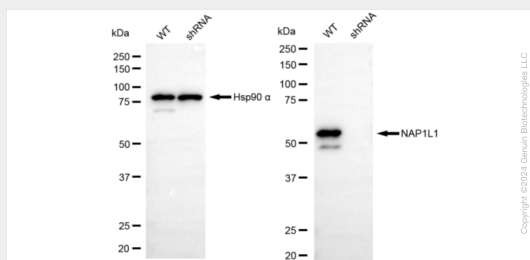
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-NAP1L1 Rabbit Monoclonal Antibody - Images

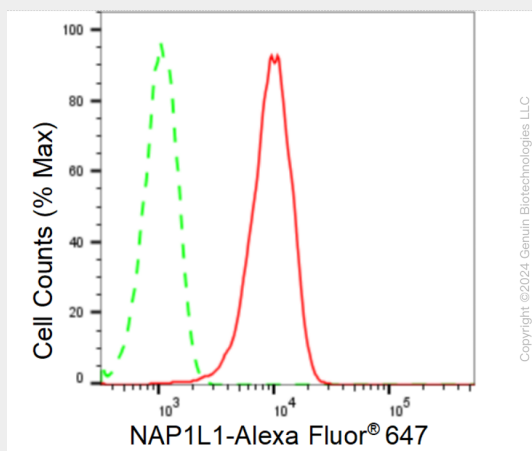


Western blotting analysis using anti-NAP1L1 antibody (Cat#AGI1613). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NAP1L1 antibody (Cat#AGI1613, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

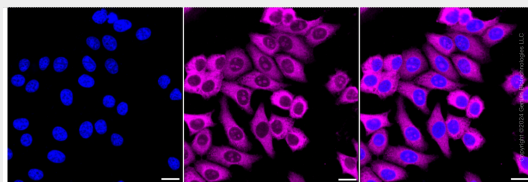


Western blotting analysis using anti-NAP1L1 antibody (Cat#AGI1613). NAP1L1 expression in wild

type (WT) and NAP1L1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-NAP1L1 antibody (Cat#AGI1613, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of NAP1L1 expression in HepG2 cells using NAP1L1 antibody (Cat#AGI1613, 1:2,000). Green, isotype control; red, NAP1L1.



Immunocytochemical staining of HepG2 cells with anti-NAP1L1 antibody (Cat#AGI1613, 1:1,000). Nuclei were stained blue with DAPI; NAP1L1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.