

KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1502**Specification****KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9NPI6
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 63 kDa , observed, 75 kDa KDa
Gene Name	DCP1A
Aliases	DCP1A; Decapping mRNA 1A; SMIF; HSA275986; SMAD4IP1; Smad4-Interacting Transcriptional Co-Activator; Transcription Factor SMIF; mRNA-Decapping Enzyme 1A; DCP1 Decapping Enzyme Homolog A (S. Cerevisiae); Putative Protein Product Of Nbla00360; DCP1 Decapping Enzyme-Like Protein A; DCP1 Decapping Enzyme Homolog A; Decapping Enzyme HDcp1a; EC 3.6.1.62; Nbla00360
Immunogen	A synthesized peptide derived from human DCP1A

KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody - Additional Information

Gene ID	55802
Other Names	mRNA-decapping enzyme 1A, 3.6.1.62, Smad4-interacting transcriptional co-activator, Transcription factor SMIF, DCP1A, SMIF

KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody - Protein Information**Name** DCP1A**Synonyms** SMIF**Function**

Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay (PubMed:12417715). Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'- phosphorylated mRNA fragment and 7m-GDP (PubMed:12417715). Contributes to the transactivation of target genes after stimulation by TGFB1 (PubMed:11836524). Essential for embryonic development (PubMed:33813271).

target="_blank">33813271).

Cellular Location

Cytoplasm, P-body. Nucleus. Note=Co- localizes with NANOS3 in the processing bodies (By similarity) Predominantly cytoplasmic, in processing bodies (PB) (PubMed:16364915) Nuclear, after TGF β 1 treatment. Translocation to the nucleus depends on interaction with SMAD4 (PubMed:11836524) {ECO:0000250|UniProtKB:Q91YD3, ECO:0000269|PubMed:11836524, ECO:0000269|PubMed:16364915}

Tissue Location

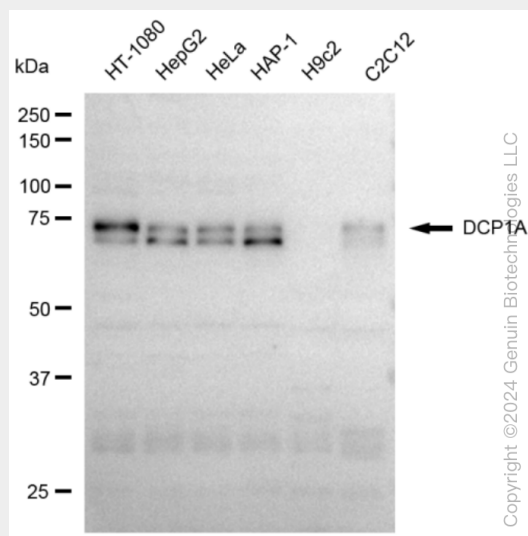
Detected in heart, brain, placenta, lung, skeletal muscle, liver, kidney and pancreas.

KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody - Protocols

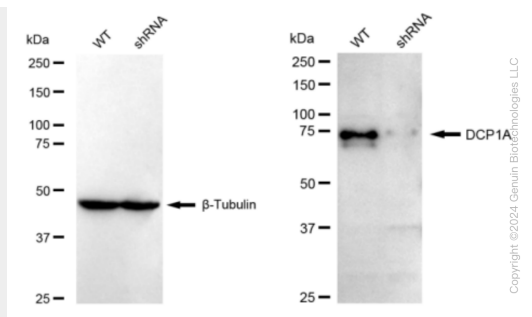
Provided below are standard protocols that you may find useful for product applications.

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

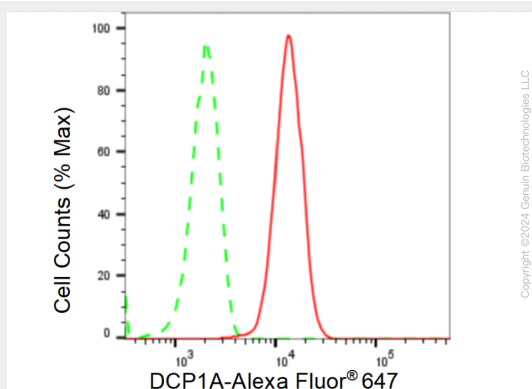
KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-DCP1A antibody (Cat#AGI1502). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DCP1A antibody (Cat#AGI1502, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-DCP1A antibody (Cat#AGI1502). DCP1A expression in wild type (WT) and DCP1A shRNA knockdown (KD) HT-1080 cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-DCP1A antibody (Cat#AGI1502, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of DCP1A expression in HT-1080 cells using DCP1A antibody (Cat#AGI1502, 1:2,000). Green, isotype control; red, DCP1A.