

DCP1A Antibody
Rabbit mAb
Catalog # AP91766**Specification**

DCP1A Antibody - Product Information

Application	WB, IHC, FC, ICC
Primary Accession	Q9NPI6
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Dcp1a; HSA275986; Nbla00360; SMAD4IP1; SMIF;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	63278 Da

DCP1A Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human DCP1A
Description	Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay. Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP. Contributes to the transactivation of target genes after stimulation by TGFB1.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

DCP1A 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 TGF β 1 (PubMed:11836524). Essential for embryonic development (PubMed: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

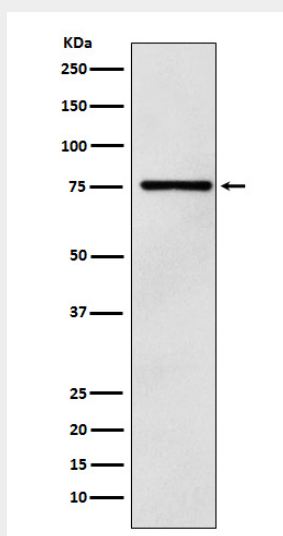
Detected in heart, brain, placenta, lung, skeletal muscle, liver, kidney and pancreas.

DCP1A 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](#)

DCP1A Antibody - Images



Western blot analysis of DCP1A expression in 293T cell lysate.