

# DCP1A Antibody

Rabbit mAb

Catalog # AP91766

## Product Information

<b>Application</b>	WB, IHC, IF, FC, ICC, IHF
<b>Primary Accession</b>	<a href="#">Q9NPI6</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	Dcp1a; HSA275986; Nbla00360; SMAD4IP1; SMIF;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	63278

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:100
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human DCP1A
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	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.

## Protein Information

<b>Name</b>	DCP1A
<b>Synonyms</b>	SMIF
<b>Function</b>	Necessary for the degradation of mRNAs, both in normal mRNA turnover and in nonsense-mediated mRNA decay (PubMed: <a href="#">12417715</a> ). Removes the 7-methyl guanine cap structure from mRNA molecules, yielding a 5'-phosphorylated mRNA fragment and 7m-GDP (PubMed: <a href="#">12417715</a> ). Contributes to the transactivation of target genes after stimulation by TGFB1 (PubMed: <a href="#">11836524</a> ). Essential for embryonic development (PubMed: <a href="#">33813271</a> ).
<b>Cellular Location</b>	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 TGFB1 treatment. Translocation to the nucleus depends on interaction with SMAD4

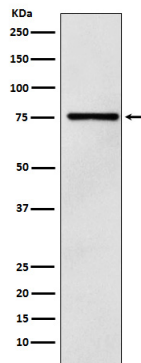
(PubMed:11836524) {ECO:0000250|UniProtKB:Q91YD3,  
ECO:0000269|PubMed:11836524, ECO:0000269|PubMed:16364915}

## Tissue Location

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

## Images

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

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