

KD-Validated Anti-DCP1A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1502

Product Information

Application	WB, FC
Primary Accession	Q9NPI6
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB5150
Calculated MW	63278
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

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

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).
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 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.

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