

Anti-DCP1A Monoclonal Antibody

Catalog # ABO14650

Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	Q9NPI6
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-DCP1A Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

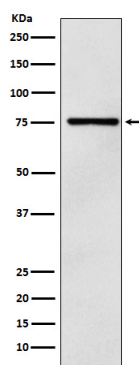
Additional Information

Gene ID	55802
Other Names	mRNA-decapping enzyme 1A, 3.6.1.62, Smad4-interacting transcriptional co-activator, Transcription factor SMIF, DCP1A, SMIF
Calculated MW	63278
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 FC 1:100
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: AEFC-4
Immunogen	A synthesized peptide derived from human DCP1A 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 TGFβ1.
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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.

Images



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'.