Datasheet for ABIN7126292

anti-DCP2 antibody

Go to Product page

Overview

Quantity:	100 µg
Target:	DCP2
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This DCP2 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant full-length human DCP2 protein
Isotype:	IgG2a
Specificity:	The major pathway of eukaryotic mRNA decay involves deadenylation-dependent decapping followed by 5' to 3' exonucleolytic degradation. Human decapping enzyme 2 (hDcp2) is an mRNA decapping enzyme which contains intrinsic decapping activity. In nonsense-mediated decay, the human decapping complex, made up of hDcp1 and hDcp2, may be recruited to mRNAs containing premature termination codons by nonsense-mediated decay factor (Upf) proteins. The decapping activator complex (Lsm1p-7p) is also involved in the recruitment of the decapping complex, indicated by data showing that Lsm1p-7p enhances the co-immunoprecipitation of the complex with mRNA. Dcp2 specifically hydrolyzes methylated capped RNA to release m7GDP, thereby aiding in mRNA degradation. Both Dcp1 and Dcp2 co-localize in the cytoplasm, which is consistent with their role in mRNA decay
Cross-Reactivity (Details):	Human. Predicted to react with Mouse and Rat.

Product Details

Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	DCP2
Alternative Name:	DCP2 (DCP2 Products)
Background:	DCP2 decapping enzyme homolog (S. cerevisiae), DFLJ33245, hDpc, m7GpppN-mRNA hydrolase, mRNA decapping enzyme 2, nudix (nucleoside diphosphate linked moiety X)-type motif 20 (NUDT20),DCP2 (Decapping mRNA 2) Cellular localisation: Cytoplasm > P. body. Nucleus. Predominantly cytoplasmic, in processing bodies (PB). A minor amount is nuclear.
Molecular Weight:	48.4kDa
Gene ID:	167227, 443875
UniProt:	Q8IU60

Application Details

Application Notes:	Known_Application: Immunoprecipitation (1-2 µg per 100-500 µg of total protein), ,Flow Cytometry (1-2 µg/million cells), ,Immunofluorescence (1-2 µg/mL), ,Optimal dilution for a specific application should be determined. Positive_Control: MCF7, Daudi or Jurkat cells.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months