

Rabbit anti-Human DCP1A Monoclonal Antibody | anti-DCP1A antibody

DCP1A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30444	Rabbit	Human	Western Blot, Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

DCP1A; Monoclonal Antibody; DCP1A Antibody; DCP1 decapping enzyme homolog A antibody; Dcp1a antibody; DCP1A_HUMAN antibody; Decapping enzyme hDcp1a antibody; Decapping mRNA 1A antibody; HSA275986 antibody; mRNA decapping enzyme 1A antibody; mRNA-decapping enzyme 1A antibody; Nbla00360 antibody; Putative protein product of Nbla00360 antibody; Smad4 interacting transcriptional co activator antibody; Smad4-interacting transcriptional co-activator antibody; SMAD4IP1 antibody; SMIF antibody; Transcription factor SMIF antibody; anti-DCP1A antibody

PRODUCT SPECIFICATIONS

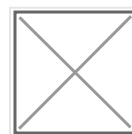
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	JB51-34
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-DCP1A antibody	WB (Western Blot), ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



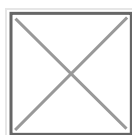
FCM (Flow Cytometry)

Flow cytometric analysis of LOVO cells with Dcp1a antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



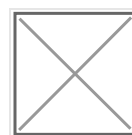
ICC (Immunocytochemistry)

ICC staining Dcp1a in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)

ICC staining Dcp1a in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC (Immunocytochemistry)

ICC staining Dcp1a in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Dcp1a antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-Dcp1a antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-DCP1A antibody	Cleavage of the 5'-cap structure is involved in the major 5'-to-3' and nonsense-mediated mRNA decay pathways. The protein complex consisting of Dcp1 and Dcp2 has been identified as the species responsible for the decapping reaction in <i>Saccharomyces cerevisiae</i> . In nonsense-mediated decay, the human decapping complex, made up of <i>S. cerevisiae</i> homologs Dcp1a and hDcp2, may be recruited to mRNAs containing premature termination codons by nonsense-mediated decay factor (Upf) proteins. hDcp2 specifically hydrolyzes methylated capped RNA to release m ⁷ GDP, thereby aiding in mRNA degradation. Both Dcp1a and hDcp2 colocalize in the cytoplasm. In addition, Dcp1a interacts with Smad4 forming a complex with TGFbeta and BMP-4. Dcp1a and Smad4 interact directly through a EVH1/WH1 domain on Dcp1a and a proline-rich activation domain on Smad4. Smad4 is essential to nuclear translocation of Dcp1a as deletion of the Smad4-interacting domain (located in the N-terminal 100 amino acids) of Dcp1a eliminates TGFbeta-induced nuclear translocation of Dcp1a.
Product Categories/Family for anti-DCP1A antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	291327466
NCBI GeneID	55802
NCBI Accession #	NP_060873.4
NCBI GenBank Nucleotide #	NM_018403.5
UniProt Accession #	Q9NPI6
Molecular Weight	63,309 Da
NCBI Official Full Name	mRNA-decapping enzyme 1A
NCBI Official Synonym Full Names	decapping mRNA 1A
NCBI Official Symbol	DCP1A
NCBI Official Synonym Symbols	SMIF; SMAD4IP1; HSA275986; Nbla00360
NCBI Protein Information	mRNA-decapping enzyme 1A; decapping enzyme hDcp1a; transcription factor SMIF; DCP1 decapping enzyme homolog A; putative protein product of Nbla00360; Smad4-interacting transcriptional co-activator
UniProt Protein Name	mRNA-decapping enzyme 1A
UniProt Gene Name	DCP1A
UniProt Synonym Gene Names	SMIF
UniProt Entry Name	DCP1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dcp1a-antibody-clone-jb51-34-western-blot-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/30444>