

Summary

Production Name	SMIF Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	DCP1A
Alternative Names	DCP1A; SMIF; mRNA-decapping enzyme 1A; Smad4-interacting transcriptional co-activator; Transcription factor SMIF
Gene ID	55802.0
SwissProt ID	Q9NPI6.The antiserum was produced against synthesized peptide derived from human DCP1A. AA range:111-160

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	75kDa

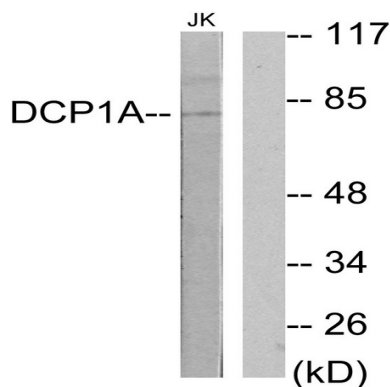
Background

Decapping is a key step in general and regulated mRNA decay. The protein encoded by this gene is a decapping enzyme. This protein and another decapping enzyme form a decapping complex, which interacts with the nonsense-mediated decay factor hUpf1 and may be recruited to mRNAs containing premature termination codons. This protein also participates in the TGF-beta signaling pathway. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014],function: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.,similarity:Belongs to the DCP1 family.,subcellular location:Predominantly cytoplasmic, in processing bodies (PB). Nuclear, after TGFB1 treatment. Translocation to the nucleus depends on interaction with SMAD4.,subunit:Forms a complex with EDC3, DCP2, DDX6 and EDC4/HEDLS, within this complex directly interacts with EDC3. Binds DCP1B, UPF1 and SMAD4. Part of a cytoplasmic complex containing proteins involved in mRNA decay, including XRN1 and LSM1. Interacts with PNRC2.,tissue specificity:Detected in heart, brain, placenta, lung, skeletal muscle, liver, kidney and pancreas.,

Research Area

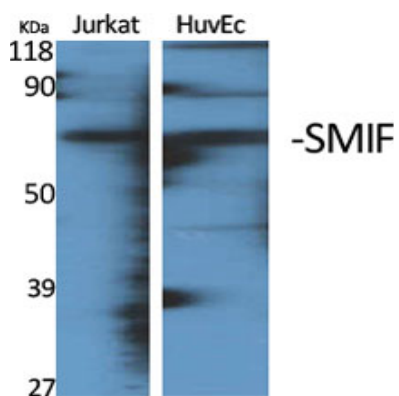
RNA degradation;

Image Data



Western blot analysis of lysates from Jurkat cells, using DCP1A Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: SMIF Rabbit Polyclonal Antibody
Catalog #: APRab18023



Western Blot analysis of various cells using SMIF Polyclonal Antibody

Note

For research use only.