10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SMIF Polyclonal Antibody
Catalog # AP72526

Specification

SMIF Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9NPI6
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**

SMIF Polyclonal Antibody - Additional Information

Gene ID 55802

Other Names
DCP1A; SMIF; mRNA-decapping enzyme 1A; Smad4-interacting transcriptional co-activator; Transcription factor SMIF

Dilution
WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

SMIF Polyclonal Antibody - 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}

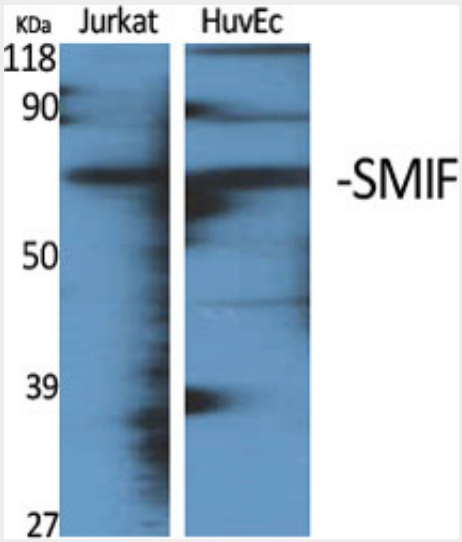
Tissue Location
Detected in heart, brain, placenta, lung, skeletal muscle, liver, kidney and pancreas.

SMIF Polyclonal Antibody - Protocols

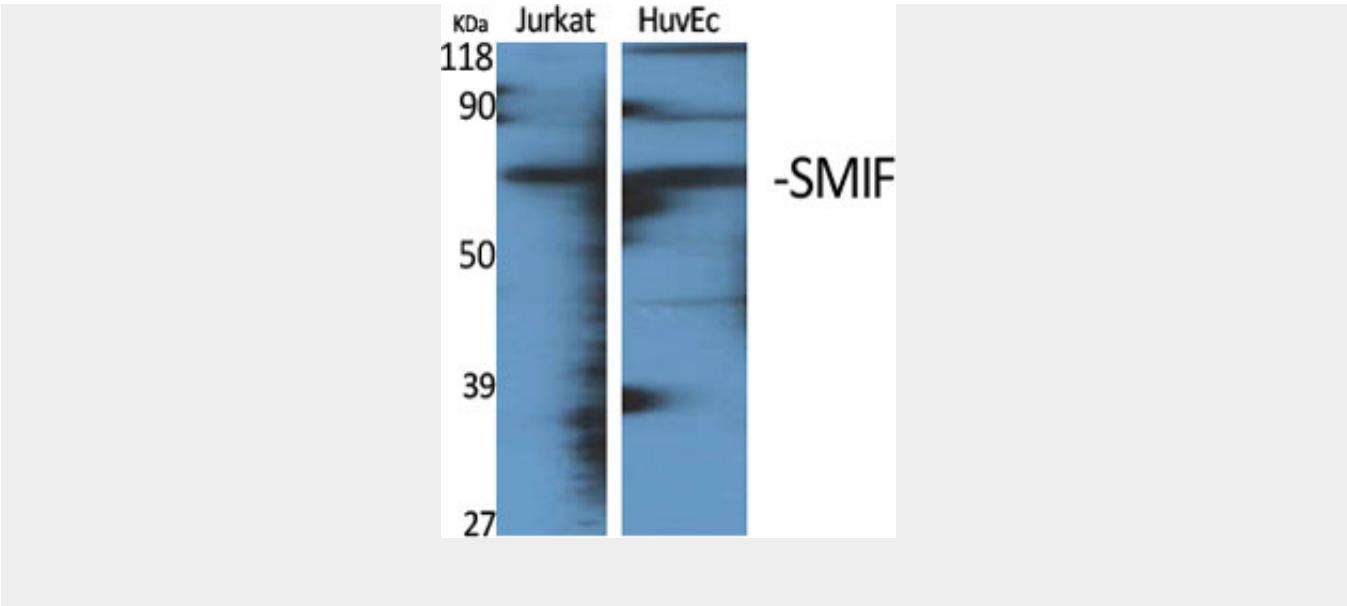
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMIF Polyclonal Antibody - Images



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



SMIF Polyclonal Antibody - Background

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.