

Product Name: SMG7 Rabbit Polyclonal Antibody
Catalog #: APRab18020



Summary

Production Name	SMG7 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF, WB,
Reactivity	Human, Rat, 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% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SMG7
Alternative Names	SMG7; C1orf16; EST1C; KIAA0250; Protein SMG7; EST1-like protein C; SMG-7 homolog; hSMG-7
Gene ID	9887.0
SwissProt ID	Q92540. The antiserum was produced against synthesized peptide derived from human SMG7. AA range: 521-570

Application

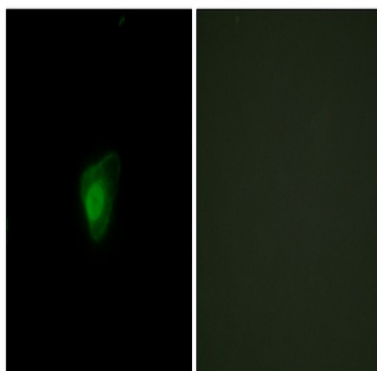
Dilution Ratio	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	127kD

Background

SMG7, nonsense mediated mRNA decay factor(SMG7) Homo sapiens This gene encodes a protein that is essential for nonsense-mediated mRNA decay (NMD); a process whereby transcripts with premature termination codons are targeted for rapid degradation by a mRNA decay complex. The mRNA decay complex consists, in part, of this protein along with proteins SMG5 and UPF1. The N-terminal domain of this protein is thought to mediate its association with SMG5 or UPF1 while the C-terminal domain interacts with the mRNA decay complex. This protein may therefore couple changes in UPF1 phosphorylation state to the degradation of NMD-candidate transcripts. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2011],function:Plays a role in nonsense-mediated mRNA decay. Recruits RENT1 to cytoplasmic mRNA decay bodies.,similarity:Contains 2 TPR repeats.,subcellular location:Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm.,subunit:Part of a complex that contains SMG5, SMG7, PP2AC, a short isoform of UPF3A (isoform UPF3AS, but not isoform UPF3AL) and phosphorylated RENT1.,

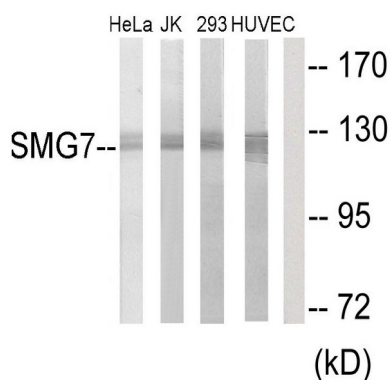
Research Area

Image Data

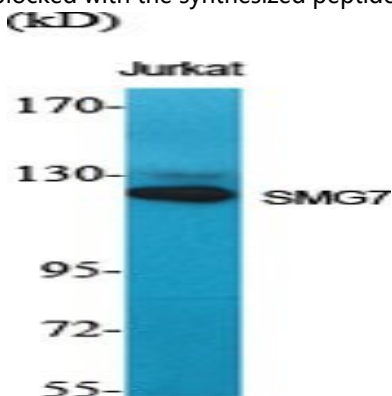


Immunofluorescence analysis of HepG2 cells, using SMG7 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from HeLa, Jurkat, 293, and HUVEC cells, using SMG7 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using SMG7 Polyclonal Antibody diluted at 1 : 2000



Western Blot analysis of HuvEc cells using SMG7 Polyclonal Antibody diluted at 1 : 2000

Note

For research use only.