

SMG7 rabbit pAb**Cat#: orb766341 (Manual)**

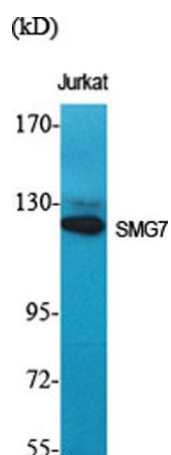
For research use only. Not intended for diagnostic use.

Product Name	SMG7 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human SMG7. AA range:521-570
Specificity	SMG7 Polyclonal Antibody detects endogenous levels of SMG7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Protein SMG7
Gene Name	SMG7
Cellular localization	Cytoplasm . Nucleus . Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

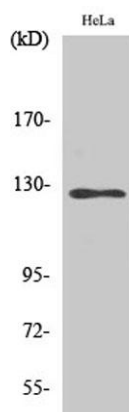
Concentration	1 mg/ml
Observed band	127kD
Human Gene ID	9887
Human Swiss-Prot Number	Q92540
Alternative Names	SMG7; C1orf16; EST1C; KIAA0250; Protein SMG7; EST1-like protein C; SMG-7 homolog; hSMG-7

Background

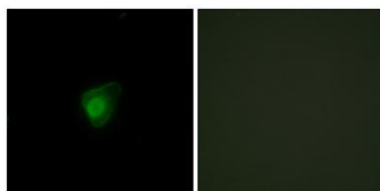
SMG7, nonsense mediated mRNA decay factor(SMG7) Homo sapiens
This gene encodes a protein that is essential for nonsense-mediated mRNA decay (NMD); a process whereby transcripts with premature termination codons are targeted for rapid degradation by a mRNA decay complex. The mRNA decay complex consists, 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],



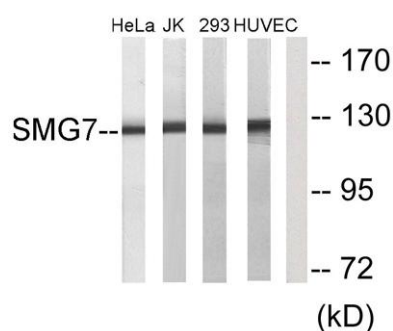
Western Blot analysis of various cells using SMG7 Polyclonal Antibody diluted at 1:2000



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



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



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.