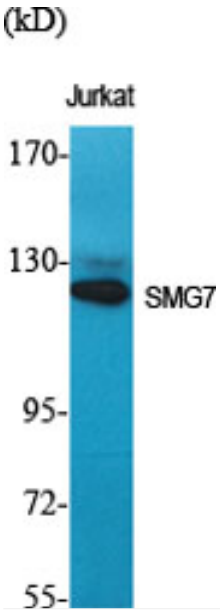
SMG7 Polyclonal Antibody

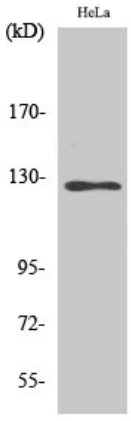
Catalog No	YP-Ab-02022
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	SMG7
Protein Name	Protein SMG7
Immunogen	The antiserum was produced against synthesized peptide derived from human SMG7. AA range:521-570
Specificity	SMG7 Polyclonal Antibody detects endogenous levels of SMG7 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	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.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SMG7; C1orf16; EST1C; KIAA0250; Protein SMG7; EST1-like protein C; SMG-7 homolog; hSMG-7
Observed Band	127kD
Cell Pathway	Cytoplasm . Nucleus . Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm. .
Tissue Specificity	Bone marrow,Brain,Epithelium,Testis,
Function	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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

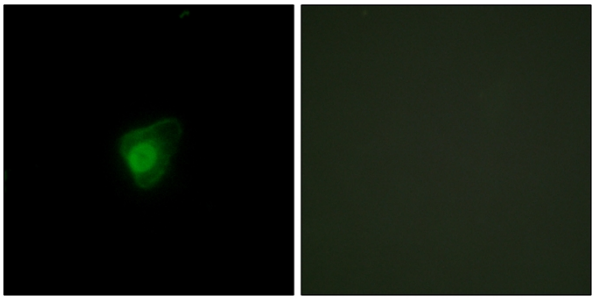
Products Images



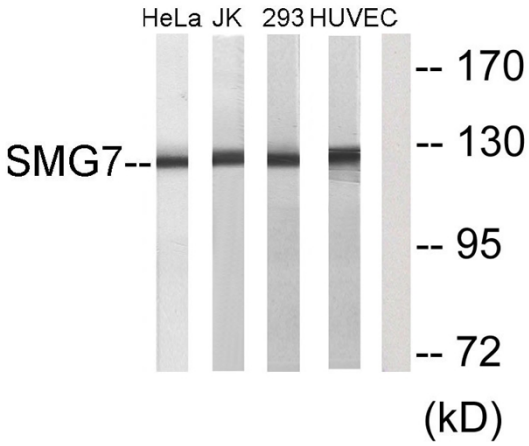
Western Blot analysis of various cells using SMG7 Polyclonal Antibody diluted at 1:2000



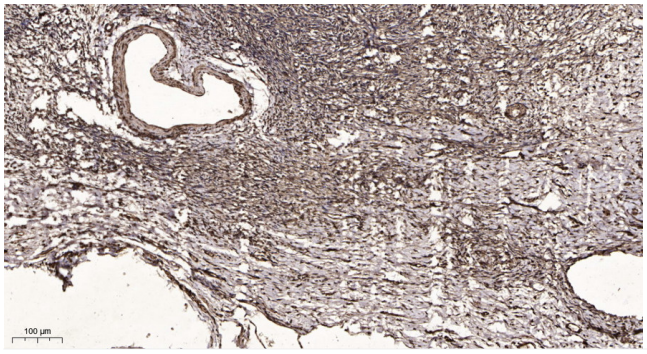
Western Blot analysis of HuvEc cells using SMG7 Polyclonal Antibody diluted at 1:2000



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.



Immunohistochemical analysis of paraffin-embedded human oophoroma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).