

# SMG5 Rabbit pAb

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Catalog # AP54916

## Product Information

<b>Application</b>	WB, IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q9UPR3</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Rat, Dog, Pig, Horse, Rabbit, Sheep
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	113928
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human SMG5
<b>Epitope Specificity</b>	461-560/1016
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasmic and Nuclear.
<b>SIMILARITY</b>	Contains 1 PINc domain.
<b>SUBUNIT</b>	Interacts with TERT, PPP2CA and SMG1. Part of a complex that contains SMG1, SMG5, SMG7, PPP2CA, a short isoform of UPF3A (isoform UPF3AS, but not isoform UPF3AL) and phosphorylated UPF1. Not detected in complexes that contain unphosphorylated UPF1.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	SMG5 is involved in nonsense-mediated mRNA decay (Ohnishi et al., 2003 [PubMed 14636577]).[supplied by OMIM, Mar 2008]

## Additional Information

<b>Gene ID</b>	23381
<b>Other Names</b>	Nonsense-mediated mRNA decay factor SMG5 {ECO:0000312 HGNC:HGNC:24644}, EST1-like protein B, LPTS-RP1 {ECO:0000303 Ref.3}, LPTS-interacting protein, SMG-5 homolog, hSMG-5, SMG5 ( <a href="#">HGNC:24644</a> )
<b>Target/Specificity</b>	Ubiquitous.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

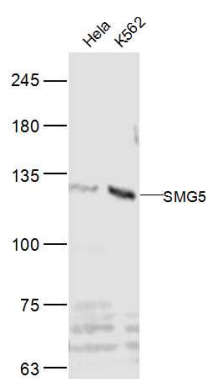
## Protein Information

<b>Name</b>	SMG5 ( <a href="#">HGNC:24644</a> )
<b>Function</b>	Plays a role in nonsense-mediated mRNA decay. Does not have RNase activity by itself. Promotes dephosphorylation of UPF1. Together with SMG7 is thought to provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation. Necessary for TERT activity.
<b>Cellular Location</b>	Cytoplasm. Nucleus. Note=Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm. Detected in cytoplasmic mRNA decay bodies
<b>Tissue Location</b>	Ubiquitous.

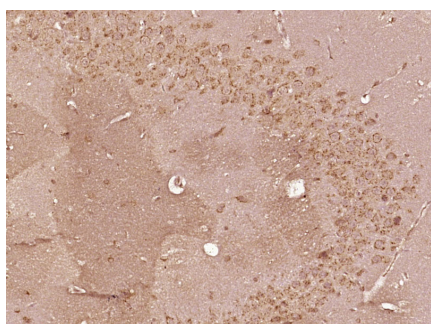
## Background

SMG5 is involved in nonsense-mediated mRNA decay (Ohnishi et al., 2003 [PubMed 14636577]).[supplied by OMIM, Mar 2008]

## Images



Sample:  
Hela(Human) Cell Lysate at 30 ug  
K562(Human) Cell Lysate at 30 ug  
Primary: Anti-SMG5 (AP54916) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 114 kD  
Observed band size: 120 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SMG5) Polyclonal Antibody, Unconjugated (AP54916) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.