

Product Name: SMG9 Rabbit Polyclonal Antibody
Catalog #: APRab18021



Summary

Production Name	SMG9 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

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, and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SMG9 C19orf61
Alternative Names	
Gene ID	56006.0
SwissProt ID	Q9H0W8.Synthesized peptide derived from human protein . at AA range: 70-150

Application

Dilution Ratio	WB 1:500-2000 ELISA 1:5000-20000
Molecular Weight	57kD

Background

SMG9, nonsense mediated mRNA decay factor(SMG9) Homo sapiens This gene encodes a regulatory subunit of the SMG1 complex, which plays a critical role in nonsense-mediated mRNA decay (NMD). Binding of the encoded protein to

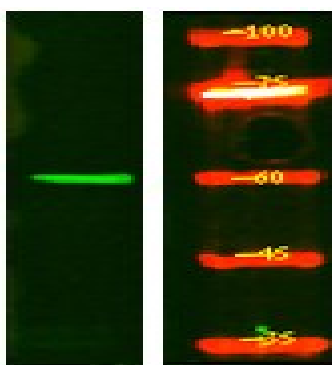
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the SMG1 complex kinase scaffold protein results in the inhibition of its kinase activity. Mutations in this gene cause a multiple congenital anomaly syndrome in human patients, characterized by brain malformation, congenital heart disease and other features. [provided by RefSeq, Jul 2016],function:Component of the SMG1C complex, a mRNA surveillance complex that recognizes and degrades mRNAs containing premature translation termination codons (PTCs) via the nonsense-mediated mRNA decay (NMD). The complex probably acts by associating with ribosomes during translation termination on mRNPs. If an exon junction complex (EJC) is located 50-55 or more nucleotides downstream from the termination codon, smg1 phosphorylates upf1/rent1, triggering nonsense-mediated mRNA decay (NMD). In the SMG1C complex, it is required for the efficient association between smg1 and smg8.,PTM:Phosphorylated by SMG1.,similarity:Belongs to the SMG9 family.,subunit:Component of the SMG1C complex, at least composed of SMG1, SMG8 and SMG9. The SMG1C complex is then recruited on premature translation termination codons (PTCs) to form the ribosome:SURF complex, at least composed of ERF1, ERF3 (ERF3A or ERF3B), EEF2, UPF1/RENT1, SMG1, SMG8 and SMG9.,

Research Area

Image Data



Western Blot analysis of HEK293 lysis, using primary antibody at 1:1000 dilution. Secondary antibody was diluted at 1:10000

Note

For research use only.