Product Name: SMG9 Rabbit Polyclonal Antibody
Catalog #: APRab18021
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Application

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

Antigen Information

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

Background

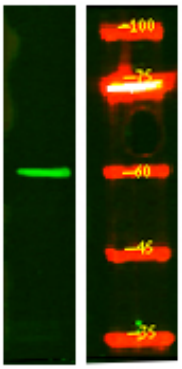
SMG9, nonsense mediated mRNA decay factor(SMG9) Homo sapiens This gene encodes a regulatory subunit of the SMG1 complex, which plays a critical role in nonsense-mediated mRNA decay (NMD). Binding of the encoded protein to the SMG1 complex kinase scaffold protein results in the inhibition of its kinase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

Epigenetics and Nuclear Signaling; DNA / RNA; RNA Processing

Image Data



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