



## Datasheet for ABIN7270376 **anti-SMG7 antibody (AA 1-300)**



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### 1 Image

#### Overview

Quantity:	100 µL
Target:	SMG7
Binding Specificity:	AA 1-300
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMG7 antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Details

Purpose:	SMG7 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human SMG7 (NP_963863.2).
Sequence:	MSLQSAQYLR QAEVLKADMT DSKLGPAEVW TSRQALQDLY QKMLVTDLEY ALDKKVEQDL WNHAFKNQIT TLQGQAKNRA NPNRSEVQAN LSLFLEAASG FYTQLLQELC TVFNVDLPCR VKSSQLGIIS NKQTHTSAIV KPQSSSCSYI CQHCLVHLGD IARYRNQTSQ AESYYRHAAQ LVPSNGQPYN QLAILASSKG DHLTTIFYYC RSIAVKFPPF AASTNLQKAL SKALESRDEV KTKWGVSDFI KAFIKFHGHV YLSKSLEKLS PLREKLEEQF KRLLFQKAFN SSQLVHVTVI
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Product Details

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Purification: Affinity purification

## Target Details

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Target: SMG7

Alternative Name: SMG7 ([SMG7 Products](#))

Background: 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.,SMG7,C1orf16,EST1C,SGA56M,Epigenetics & Nuclear Signaling,SMG7

Molecular Weight: 122kDa/127kDa/131kDa

Gene ID: 9887

UniProt: [Q92540](#)

## Application Details

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Application Notes: WB,1:200 - 1:2000

Restrictions: For Research Use only

## Handling

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Format: Liquid

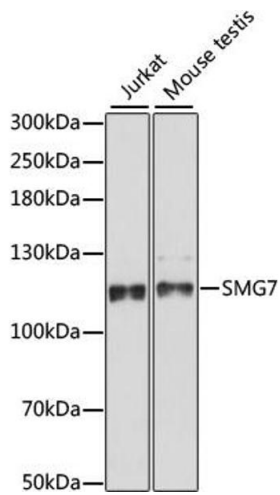
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using SMG7 antibody (ABIN7270376) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.