

For Research Use Only

# SMG6 Monoclonal antibody

Catalog Number: 68109-1-Ig



## Basic Information

<b>Catalog Number:</b> 68109-1-Ig	<b>GenBank Accession Number:</b> NM_017575	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23293	<b>CloneNo.:</b> 1D2G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q86US8	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> Smg-6 homolog, nonsense mediated mRNA decay factor (C. elegans)	
<b>Immunogen Catalog Number:</b> AG30182	<b>Calculated MW:</b> 160 kDa	
	<b>Observed MW:</b> 160 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, mouse	<b>WB :</b> LNCaP cells, RAW 264.7 cells, MCF-7 cells, HeLa cells, HEK-293 cells

## Background Information

SMG6, also known as C17orf31, EST 1A, and hEST1A, is a component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini (PMID: 19179534). It promotes in vitro the ability of TERT to elongate telomeres (PMID: 12676087, 12699629). SMG6 also plays a role in the nonsense-mediated mRNA decay (NMD) pathway, providing the endonuclease activity near the premature translation termination codon that is needed to initiate NMD (PMID: 19060897, 20930030). Alternate splicing results in multiple transcript variants (PMID: 12699629, 14636577).

## Storage

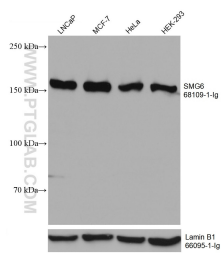
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

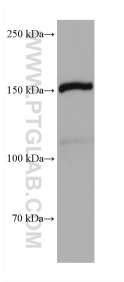
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68109-1-ig (SMG6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-ig) as loading control.



RAW 264.7 cells were subjected to SDS PAGE followed by western blot with 68109-1-ig (SMG6 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.