



Human SMG7 peptide (DAG-P1176)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. [provided by RefSeq, Aug 2011]
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Conjugate	Unconjugated
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SMG7 SMG7 nonsense mediated mRNA decay factor [Homo sapiens (human)]
Official Symbol	SMG7
Synonyms	SMG7; SMG7 nonsense mediated mRNA decay factor; EST1C; SGA56M; C1orf16; protein SMG7; EST1-like protein C; ever shorter telomeres 1C; EST1 telomerase component homolog C; breast cancer-associated antigen SGA-56M; smg-7 homolog, nonsense mediated mRNA decay factor;
Entrez Gene ID	9887

mRNA Refseq	NM_001174061.1
Protein Refseq	NP_001167532.1
UniProt ID	Q92540
Chromosome Location	1q25
Pathway	Gene Expression, organism-specific biosystem; Nonsense Mediated Decay Enhanced by the Exon Junction Complex, organism-specific biosystem; Nonsense-Mediated Decay, organism-specific biosystem; mRNA surveillance pathway, organism-specific biosystem; mRNA surveillance pathway, conserved biosystem;
Function	protein binding; protein phosphatase 2A binding;