

**C19orf61 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9392a****Specification**

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**C19orf61 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9H0W8](#)**C19orf61 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 56006**Other Names**

Protein SMG9, Protein smg-9 homolog, SMG9, C19orf61

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**C19orf61 Antibody (N-term) Blocking Peptide - Protein Information****Name** SMG9 ([HGNC:25763](#))**Function**

Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons (PubMed:<a href="http://www.uniprot.org/citations/19417104" target="\_blank">19417104</a>). Is recruited by release factors to stalled ribosomes together with SMG1 and SMG8 (forming the SMG1C protein kinase complex) and, in the SMG1C complex, is required for the efficient association between SMG1 and SMG8 (PubMed:<a href="http://www.uniprot.org/citations/19417104" target="\_blank">19417104</a>). Plays a role in brain, heart, and eye development (By similarity).

**C19orf61 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**C19orf61 Antibody (N-term) Blocking Peptide - Images****C19orf61 Antibody (N-term) Blocking Peptide - Background**

C19orf61 is 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.

#### **C19orf61 Antibody (N-term) Blocking Peptide - References**

Yamashita, A., et al. Genes Dev. 23(9):1091-1105(2009)Olsen, J.V., et al. Cell 127(3):635-648(2006)Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)Simpson, J.C., et al. EMBO Rep. 1(3):287-292(2000)