

## SMG7 Polyclonal Antibody

### Description

|                                |  |
|--------------------------------|--|
| <b>Product type</b>            | Primary Antibody   |
| <b>Code</b>                    | BT-AP08406   |
| <b>Host</b>                    | Rabbit   |
| <b>Isotype</b>                 | IgG  |
| <b>Size</b>                    | 20ul, 50ul, 100ul  |
| <b>Immunogen</b>               | The antiserum was produced against synthesized peptide derived from human SMG7. AA range:521-570 |
| <b>Mol wt</b>                  | 127282   |
| <b>Species reactivity</b>      | Human  |
| <b>Clonality</b>               | Polyclonal   |
| <b>Recommended application</b> | WB, IHC-p, IF, ELISA   |
| <b>Concentration</b>           | 1 mg/ml  |
| <b>Full name</b>               | SMG7 Antibody  |
| <b>Synonyms</b>                | SMG7; C1orf16; EST1C; KIAA0250; Protein SMG7; EST1-like protein C; SMG-7 homolog; hSMG-7         |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

SMG7 encodes protein SMG7 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.

### Recommended Dilution

WB: 1: 500 - 1: 2000

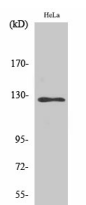
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

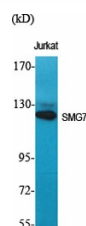
ELISA: 1: 20000

Not yet tested in other applications.

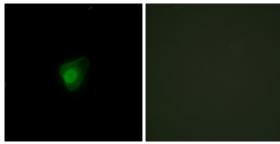
### Images



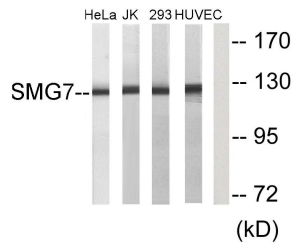
Western Blot analysis of HuvEc cells using SMG7 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of various cells using SMG7 Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of HepG2 cells, using SMG7 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa, Jurkat, 293, and HUVEC cells, using SMG7 Antibody. The lane on the right is blocked with the synthesized peptide.

#### Storage

-20°C for one year

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