

SMG7 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51529

Product Information

Application WB, IP, ICC, IHC-P

Primary Accession
Reactivity
Human
Host
Clonality
Polyclonal
Calculated MW
Q92540
Human
Rabbit
Polyclonal

Additional Information

Gene ID 9887

Other Names Protein SMG7, EST1-like protein C, SMG-7 homolog, hSMG-7, SMG7, C1orf16,

EST1C, KIAA0250

Target/Specificity KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human SMG7. The exact sequence is proprietary.

Dilution WB~~1:1000 IP~~N/A ICC~~N/A IHC-P~~N/A

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name SMG7 (HGNC:16792)

Function Plays a role in nonsense-mediated mRNA decay. Recruits UPF1 to

cytoplasmic mRNA decay bodies. Together with SMG5 is thought to provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A),

thereby triggering UPF1 dephosphorylation.

Cellular Location Cytoplasm. Nucleus. Note=Predominantly cytoplasmic, and nuclear. Shuttles

between nucleus and cytoplasm

Background

Plays a role in nonsense-mediated mRNA decay. Recruits UPF1 to cytoplasmic mRNA decay bodies. Together with SMG5 is thought to provide a link to the mRNA degradation machinery involving

exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation.

References

Ohnishi T.,et al.Mol. Cell 12:1187-1200(2003). Nagase T.,et al.DNA Res. 3:321-329(1996). Nakajima D.,et al.DNA Res. 9:99-106(2002). Ota T.,et al.Nat. Genet. 36:40-45(2004). Gregory S.G.,et al.Nature 441:315-321(2006).

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