G-Biosciences Image not found or type unknown

Immunotag™ SMG7 Polyclonal Antibody

Antibody Specification

Catalog No.	ITT4342
Product Description	Immunotag™ SMG7 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SMG7
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,IF,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human SMG7. AA range:521-570
Specificity	SMG7 Polyclonal Antibody detects endogenous levels of SMG7 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SMG7
Accession No.	Q92540 Q5RJH6
Alternate Names	SMG7; C1orf16; EST1C; KIAA0250; Protein SMG7; EST1-like protein C; SMG-7 homolog; hSMG-7

Antibody Specification

Description	SMG7, nonsense mediated mRNA decay factor(SMG7) Homo sapiens 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],
Protein Expression	Bone marrow,Brain,Epithelium,Testis,
Subcellular Localization	nucleus,telomerase holoenzyme complex,cytoplasm,cytosol,intermediate filament cytoskeleton,
Protein Function	function:Plays a role in nonsense-mediated mRNA decay. Recruits RENT1 to cytoplasmic mRNA decay bodies.,similarity:Contains 2 TPR repeats.,subcellular location:Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm.,subunit:Part of a complex that contains SMG5, SMG7, PP2AC, a short isoform of UPF3A (isoform UPF3AS, but not isoform UPF3AL) and phosphorylated RENT1.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.