

For Research Use Only

SMG5 Polyclonal antibody, PBS Only

Catalog Number:12694-1-PBS



Basic Information

Catalog Number:

12694-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3424

GenBank Accession Number:

BC038296

GeneID (NCBI):

23381

UNIPROT ID:

Q9UPR3

Full Name:

Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)

Calculated MW:

1016 aa, 114 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse

Background Information

SMG5 is also named EST1-like protein B (EST1B) and LPTS-RP1. SMG5 is a key Nonsense-mediated mRNA decay (NMD) factor, and NMD factor SMG5 is vital for embryonic development (PMID: 39199410). SMG5 plays a role in the degradation of mRNA through the process of nonsense-mediated decay and encodes a protein. SMG5 has been linked to the development of pancreatic cancer and epiphyseal chondrodysplasia among various illnesses (PMID: 36056355). SMG5 is a kind of RNA-binding proteins (RBPs) (PMID: 37936239). In addition, they have been shown to be key regulators of oncogenesis and tumor progression (PMID: 33228611). SMG5 may be a high-risk factor for HCC prognosis (PMID: 33411682). SMG5 promotes HCC cell proliferation and tumor growth. SMG5 has extensive effects on the proliferation, survival, and tumor growth of HCC cells.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

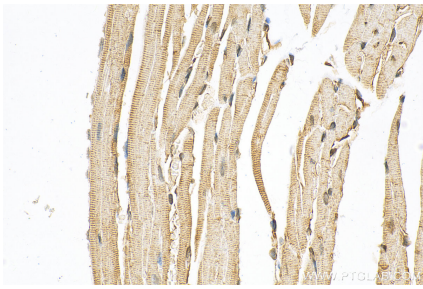
T: 4006900926

E: Proteintech-CN@ptglab.com

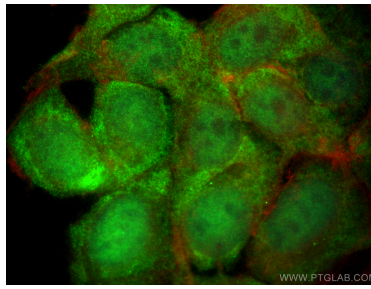
W: ptgcn.com

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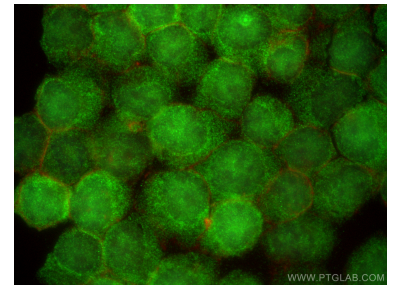
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12694-1-AP (SMG5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12694-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SMG5 antibody (12694-1-AP) at dilution of 1:200 and Multi-rAb CoraLite Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red). This data was developed using the same antibody clone with 12694-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using SMG5 antibody (12694-1-AP) at dilution of 1:200 and Multi-rAb CoraLite Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red). This data was developed using the same antibody clone with 12694-1-PBS in a different storage buffer formulation.