

## SMG7 (K548) polyclonal antibody

Catalog: BS2112

Host: Rabbit

Reactivity: Human

### BackGround:

In humans, NMD depends on RNA-dependent ATPase and 5' to 3' helicase UPF1, plus six other proteins designated SMG1, SMG5, SMG6, SMG7, UPF2 and UPF3. SMG5, SMG7 and UPF1 localize to cytoplasmic foci called P-bodies, while SMG5, SMG6 and SMG7 target UPF1 for dephosphorylation. SMG7 may also act as an adaptor in targeting mRNAs associated with phosphorylated UPF1 for degradation. SMG7 provides a link between the NMD pathway and mRNA degradation machinery by forming a complex with the proteins SMG5 and UPF1, interacting with them via its N-terminal domain, and targeting bound reporter transcripts for decay via its C-terminal domain. SMG7 contains a 14-3-3-like domain, and residues that bind phosphoserine-containing peptides in 14-3-3 proteins are conserved at the equivalent positions in SMG7.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 127 kDa

### Swiss-Prot:

Q92540

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

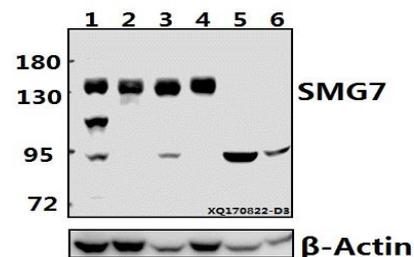
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

SMG7 (K548) polyclonal antibody detects endogenous levels of SMG7 protein.

### DATA:



Western blot (WB) analysis of SMG7 (K548) pAb at 1:500 dilution

Lane1:K562 whole cell lysate(40ug)

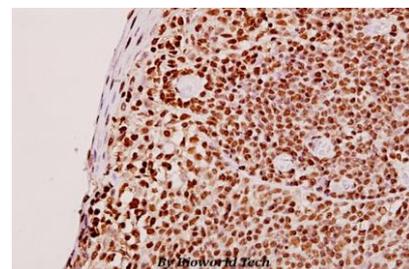
Lane2:MCF-7 whole cell lysate(40ug)

Lane3:U-87MG whole cell lysate(40ug)

Lane4:SGC7901 whole cell lysate(40ug)

Lane5:PC12 whole cell lysate(40ug)

Lane6:BV2 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of SMG7 (K548) pAb in paraffin-embedded human tonsil cancer tissue at 1:50.

### Note:

For research use only, not for use in diagnostic procedure.

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