abcam

Product datasheet

Anti-SMG6 antibody ab87539

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Overview

Product name	Anti-SMG6 antibody
Description	Rabbit polyclonal to SMG6
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
	Predicted to work with: Rat, Orangutan ⚠
Immunogen	Synthetic peptide corresponding to Human SMG6 aa 1400 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab98260)
Positive control	This antibody gave a positive signal in both Jurkat and HepG2 nuclear lysates.
General notes	This product was previously labelled as EST1A

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab87539** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

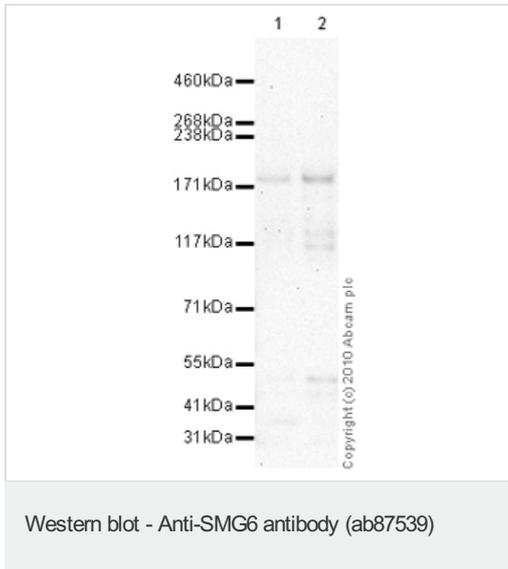| Application	Abreviews	Notes
WB	⭐⭐⭐⭐⭐	Use at an assay dependent concentration. Predicted molecular weight: 160 kDa.
ICC/IF		Use at an assay dependent concentration. PubMed: 24554440

Target

Relevance	Telomerase-binding protein EST1A is a component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. It has been shown to promote the ability of TERT to elongate telomeres and may have some endonuclease function.
Cellular localization	Nuclear

Images

Western blot - Anti-SMG6 antibody (ab87539)

All lanes : Anti-SMG6 antibody (ab87539) at 1 µg/ml

Lane 1 : Jurkat nuclear extract lysate (ab14844)
Lane 2 : HepG2 (Human hepatocellular liver carcinoma cell line) Nuclear Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 160 kDa
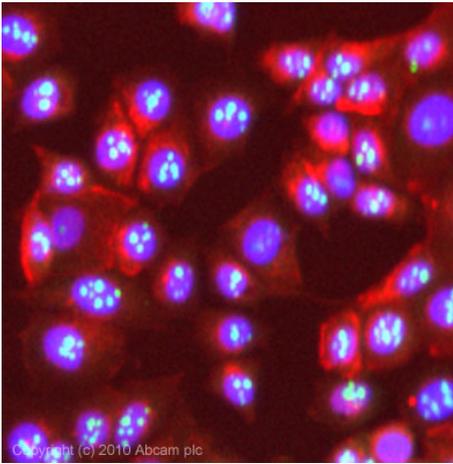**Observed band size:** 180 kDa
why is the actual band size different from the predicted?
Additional bands at: 120 kDa, 46 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 8 minutes

The predicted Mw for Human Telomerase-binding protein SMG6 is 160 kDa. We are unsure why we are seeing the banding pattern at

kDa however Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.

Immunocytochemistry/ Immunofluorescence - Anti-SMG6 antibody (ab87539)

ICC/IF image of ab87539 stained MCF7 cells. The cells were 4% PFA fixed (10 min), permabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab87539, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in 100% methanol fixed (5 min) MCF7 cells. However, this Fast-Track antibody is not yet fully characterised. This image represents inconclusive preliminary data

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