HMBOX1 polyclonal antibody

Catalog: BS35501 Host: Rabbit Reactivity: Human, Mouse

BackGround:

Homeobox-containing protein 1: Binds directly to 5'-TTAGGG-3' repeats in telomeric DNA . Associates with the telomerase complex at sites of active telomere processing and positively regulates telomere elongation . Important for TERT binding to chromatin, indicating a role in recruitment of the telomerase complex to telomeres (By similarity). Also plays a role in the alternative lengthening of telomeres (ALT) pathway in telomerase-negative cells where it promotes formation and/or maintenance of ALT-associated promyelocytic leukemia bodies (APBs) . Enhances formation of telomere C-circles in ALT cells, suggesting a possible role in telomere recombination . Might also be involved in the DNA damage response at telomeres

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~47.3 kDa

Swiss-Prot:

Q6NT76

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

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

Specificity:

Recognizes endogenous levels of HMBOX1 protein

DATA:

Western blot analysis of SLU7 expression in SGC7901 (A), LO2 (B), mouse kidney (C) whole cell lysates.

Immunofluorescent analysis of SLU7 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Note:

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

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