

Anti-POGZ antibody, rabbit serum

70-112 100 µl

Storage: Ship at 4°C or -20°C. Store at -20°C. Avoid repeated freeze-thaw cycle.

Immunogen: Recombinant protein expressing 1-562 amino acids of human POGZ.

Form: Rabbit antiserum. No azide added. Sterilized by filtration through 0.22 µm membrane.

Reactivity: Reacts specifically with human and mouse POGZ. Not tested in other species

Applications:

1. Western Blotting (1/1,000 dilution)
2. Immunofluorescence staining (1/500 dilution)
3. Immunoprecipitation (assay dependent)

Not tested for other applications

Background: POGZ (pogo transposable element-derived protein with zinc finger domain; 1,410 aa, 155 kDa) plays a role in mitotic cell cycle progression and is involved in kinetochore assembly and mitotic sister chromatid cohesion. Probably through its association with CBX5 (HP1 alpha) it plays a role in mitotic chromosome segregation by regulating aurora kinase B/AURKB activation and AURKB and CBX5 dissociation from chromosome arms.

Data links: [Entrez Gene: 23126](#) Human

[SwissProt: Q7Z3K3](#) Human

Reference: This antibody was used in the following article.

Nozawa R.S et al (2010) Human POGZ modulates dissociation of HP1alpha from mitotic chromosome arms through Aurora B activation. Nat. Cell Biol. 12:719-727

[PubMed: 20562864](#)

To be continued

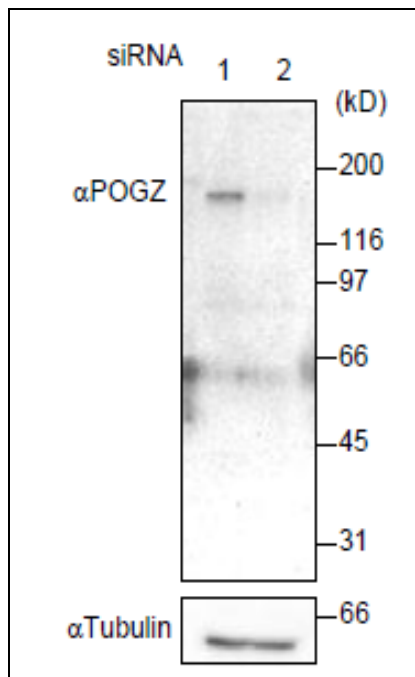


Fig.1 Western blot of POGZ

Lane 1: Crude extract of HeLa cells transfected with control siRNA

Lane 2: Crude extract of HeLa cells transfected with POGZ specific siRNA

The antibody was used at 1/1,000 dilution. Specificity of the antibody to POGZ is confirmed by the disappearance of the POGZ band in the cells treated with the POGZ specific siRNA (lane 2)

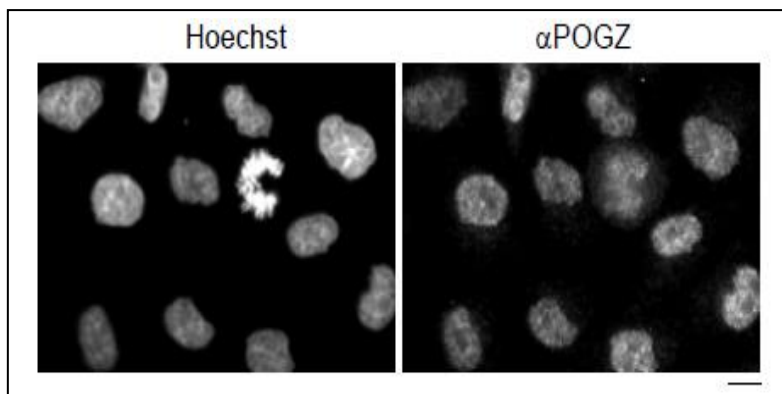


Fig.2 Immuno-fluorescence staining of POGZ.

Paraformaldehyde fixed HeLa cells were stained with Hoechst 33342 and anti-POGZ antibody. The antibody was used at 1/500 dilution. Scale bar, 10 μ m

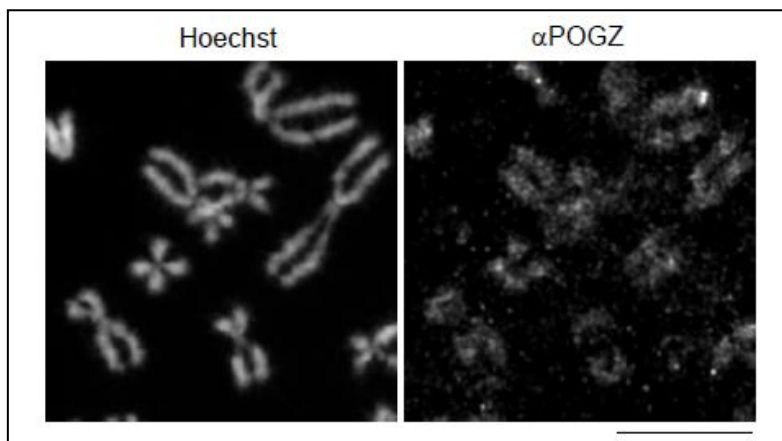


Fig. 3 Immuno-fluorescence staining of POGD on chromosomes.

Chromosome spreads were prepared from HeLa cells and stained with Hoechst 33342 and anti-POGZ antibody. The antibody was used at 1/500 dilution. Scale bar, 10 μ m