

## **Anti-POGZ antibody, rabbit polyclonal**

Cat # 70-112 100 µl

### **Description**

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.

### **Applications**

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

Not tested for other applications

### **Specification**

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

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

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

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

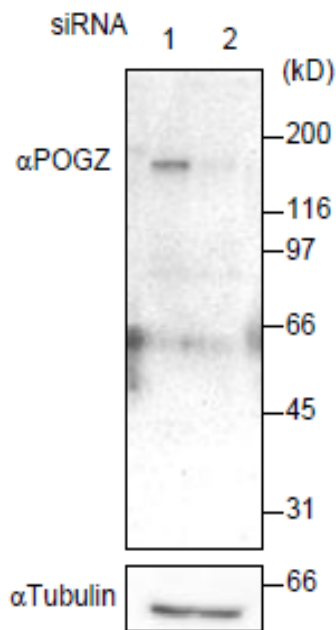
**Data links:** [Entrez Gene: 23126](#) Human

[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](#)

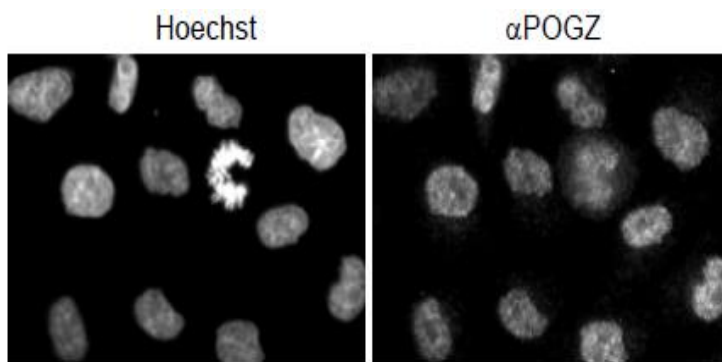
[PubMed: 20562864](#)



**Fig.1 Western blot of POGZ**

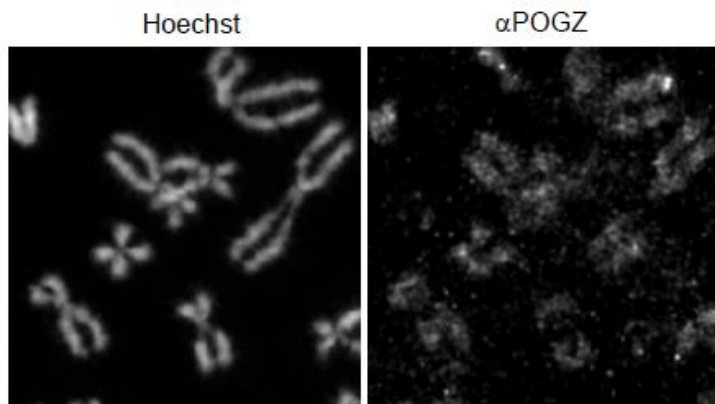
Lane 1: Crude extract of HeLa cells transfected with control siRNA  
Lane 2: Crude extract of HeLa cells transfected with POGZ specific siRNA

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 Immunofluorescence 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 μm



**Fig. 3 Immunofluorescence staining of POGZ 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 μm