

## Anti-HP1 gamma Antibody (7G984)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 21 kDa. Actual: 21 kDa.
Clone:	7G984
Purification:	Protein G purified

### Applications

Verified Activity:	<p>1. Sample: Molt-4 cell (human) Lysate at 30 µg jurkat cell (human) Lysate at 30 µg HepG2 cell (human) Lysate at 30 µg Primary: Anti-HP1 gamma (TMAB-07268) at 1/5000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 21 kD Observed band size: 21 kD</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (Rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HP1 gamma) Monoclonal Antibody, Unconjugated (cell supernatant of TMAB-07268) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded (Human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HP1 gamma) Monoclonal Antibody, Unconjugated (cell supernatant of TMAB-07268) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB=1:1000-5000,IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: human HP1 gamma Protein  
Antigen Species: Human  
Gene ID: 11335  
Uniprot ID: Q13185

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### Research Background

HP1 gamma appears to be involved in transcriptional silencing in heterochromatin-like complexes. It recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. HP1 gamma may contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR) and involved in the formation of functional kinetochore through interaction with MIS12 complex proteins.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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