

**bs-5696R****[ Primary Antibody ]****phospho-p107 (Ser975) Rabbit pAb****Bioss**  
**ANTIBODIES**

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**DATASHEET**

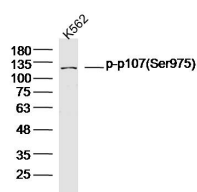
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG
<b>Clonality:</b> Polyclonal	
<b>GeneID:</b> 5933	<b>SWISS:</b> P28749
<b>Target:</b> p107 (Ser975)	
<b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human RBL1 around the phosphorylation site of Ser975: PG(P-S)PR.	
<b>Purification:</b> affinity purified by Protein A	
<b>Concentration:</b> 1mg/ml	
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
<b>Background:</b> The pocket protein family consists of three structurally and functionally related proteins, Rb (retinoblastoma), p107, and p130. This family of tumor suppressors function to regulate important cellular transcription factors, such as the E2F family. The E2F proteins regulate the expression of genes whose products are important for cell cycle progression. The inactivation Rb is catalyzed by CDK phosphorylation thereby releasing E2F during the G1-S phase cellular progression. Unchecked inactivation of Rb in G1 phase has been indicated as a universal mechanism underlying cellular transformation. While Rb has been the most studied among the pocket proteins, p107 and p130 have also been shown to be key regulators of E2F. Several studies have also provided evidence that p107/p130 provide different functions in E2F regulation than does Rb. Rb, p107, and p130 each contain a conserved 'A/B pocket', which is the target of several viral oncoproteins, namely SV40 large T-antigen and adenovirus E1A. There are two isoforms.	

**Applications:** **WB** (1:200-1000)  
**IHC-P** (1:100-500)  
**IHC-F** (1:100-500)  
**IF** (1:100-500)

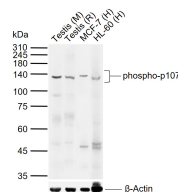
**Reactivity:** Human, Mouse, Rat  
(predicted: Pig, Sheep, Cow, Dog, Horse)

**Predicted MW.:** 121 kDa

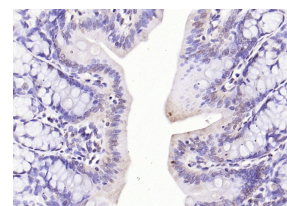
**Subcellular Location:** Nucleus

**VALIDATION IMAGES**

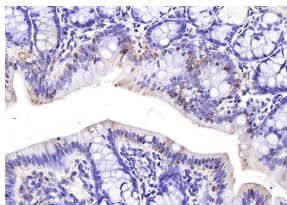
Sample: K562 Cell (Human) Lysate at 40 ug  
Primary: Anti-phospho-p107(Ser975) (bs-5696R)  
at 1/300 dilution Secondary: IRDye800CW Goat  
Anti-Rabbit IgG at 1/20000 dilution Predicted  
band size: 121 kDa Observed band size: 121 kDa



Sample: Lane 1: Mouse Testis tissue lysates Lane  
2: Rat Testis tissue lysates Lane 3: Human MCF-7  
cell lysates Lane 4: Human HL-60 cell lysates  
Primary: Anti-phospho-p107 (Ser975) (bs-5696R)  
at 1/300 dilution Secondary: IRDye800CW Goat  
Anti-Rabbit IgG at 1/20000 dilution Predicted  
band size: 121 kDa Observed band size: 130 kDa



Paraformaldehyde-fixed, paraffin embedded (rat  
colon); Antigen retrieval by boiling in sodium  
citrate buffer (pH6.0) for 15min; Block  
endogenous peroxidase by 3% hydrogen  
peroxide for 20 minutes; Blocking buffer (normal  
goat serum) at 37°C for 30min; Antibody  
incubation with (phospho-p107 (Ser975))  
Polyclonal Antibody, Unconjugated (bs-5696R)  
at 1:200 overnight at 4°C, followed by operating  
according to SP Kit(Rabbit) (sp-0023)  
instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-p107 (Ser975)) Polyclonal Antibody, Unconjugated (bs-5696R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## — SELECTED CITATIONS —

- **[IF=1.922]** Wang et al. Sirtuin 1 promotes the proliferation of C2C12 myoblast cells via the myostatin signaling pathway. (2016) Mol.Med.Rep. 14:1309-15 WB ;Rat. 27279047