

**bs-5589R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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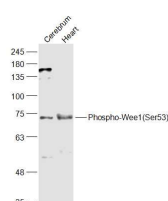
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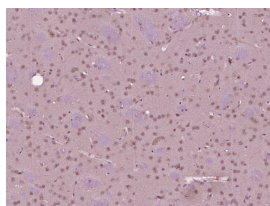
400-901-9800

**phospho-Wee1 (Ser53) Rabbit pAb****— DATASHEET —**

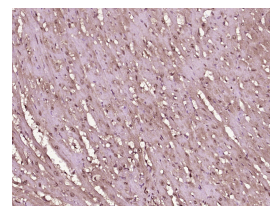
|   |                      |   |
|---|----------------------|---|
| <b>Host:</b> Rabbit   | <b>Isotype:</b> IgG  | <b>Applications:</b> <b>WB</b> (1:500-2000)   |
| <b>Clonality:</b> Polyclonal  |                      | <b>IHC-P</b> (1:100-500)  |
| <b>GeneID:</b> 7465   | <b>SWISS:</b> P30291 | <b>IHC-F</b> (1:100-500)  |
| <b>Target:</b> Wee1 (Ser53)   |                      | <b>IF</b> (1:100-500)   |
| <b>Immunogen:</b> KLH conjugated synthesised phosphopeptide derived from human Wee1 around the phosphorylation site of Ser53: ED(p-S)AF.  |                      | <b>Reactivity:</b> Human, Mouse, Rat<br>(predicted: Rabbit, Pig, Cow, Chicken, Dog) |
| <b>Purification:</b> affinity purified by Protein A   |                      |   |
| <b>Concentration:</b> 1mg/ml  |                      | <b>Predicted MW.:</b> 72 kDa  |
| <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.  |                      | <b>Subcellular Location:</b> Nucleus  |
| <b>Background:</b> This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase. |                      |   |

**— VALIDATION IMAGES —**

Sample: Cerebrum (Rat) Lysate at 40 ug Heart (Rat) Lysate at 40 ug  
 Primary: Anti-Phospho-Wee1(Ser53) (bs-5589R) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 72 kD  
 Observed band size: 72 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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-Wee1(Ser53)) Polyclonal Antibody, Unconjugated (bs-5589R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat heart); 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-Wee1(Ser53)) Polyclonal Antibody, Unconjugated (bs-5589R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=15.584]** Feng Li. et al. CHK1 Inhibitor Blocks Phosphorylation of FAM122A and Promotes Replication Stress. Mol Cell. 2020 Nov;80:410 WB ;Human. 33108758
- **[IF=14.3]** Zhuqi Huang. et al. Macrophage WEE1 Directly Binds to and Phosphorylates NF-κB p65 Subunit to Induce Inflammatory Response and Drive Atherosclerosis. ADV SCI. 2025 Apr;;2503192 ;. 40202104
- **[IF=6.162]** Serpico AF et al. Wee1 Rather Than Plk1 Is Inhibited by AZD1775 at Therapeutically Relevant Concentrations. Cancers (Basel). 2019 Jun 13;11(6). pii: E819. WB ;Human. 31200459