

**bsm-51514M****[ Primary Antibody ]****PIN1 Mouse mAb****BioSS**  
**ANTIBODIES**

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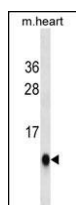
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**— DATASHEET —**

<b>Host:</b> Mouse	<b>Isotype:</b> IgG1	<b>Applications:</b> WB (1:500-2000)  <b>Reactivity:</b> Human, Mouse  <b>Predicted MW.:</b> 18 kDa  <b>Subcellular Location:</b> Cytoplasm ,Nucleus
<b>Clonality:</b> Monoclonal	<b>CloneNo.:</b> F12S3	
<b>GeneID:</b> 5300	<b>SWISS:</b> Q13526	
<b>Target:</b> PIN1		
<b>Purification:</b> affinity purified by Protein G		
<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> Pin1 is a Peptidyl-prolyl isomerases (PPIase). Peptidyl-prolyl isomerases (PPIase) facilitate the cis-trans interconversion of the peptidyl-prolyl bond thereby affecting protein folding. Pin1 is a PPIase which specifically recognizes phosphorylated S/T-P bonds. Pin1 has been implicated in tau pathologies that underlie Alzheimer's Disease. Pin1 binds to tau phosphorylated specifically on the Thr231-Pro site and induces conformational changes in tau. Such conformational changes can directly restore the ability of phosphorylated Tau to bind microtubules and promote microtubule assembly and/or facilitate tau dephosphorylation. Pin1 expression inversely correlates with the predicted neuronal vulnerability in normally aged brain and also with actual neurofibrillary degeneration in AD brain. Pin1 could be pivotal for maintenance of normal neuronal function and preventing age-dependent neurodegeneration.		

**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Heart tissue lysates  
Primary: Anti-PIN1 (bsm-51514M) at 1/1000  
dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 18 kD Observed band size: 15 kD