

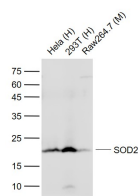
**bsm-51267M****[ Primary Antibody ]****SOD2 Mouse mAb****Bioss**  
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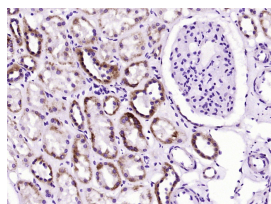
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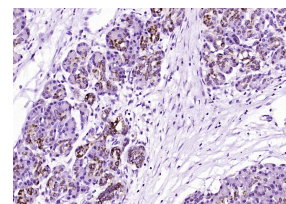
400-901-9800

**— DATASHEET —****Host:** Mouse**Isotype:** IgG1, k**Clonality:** Monoclonal**CloneNo.:** 6C11**GeneID:** 6648**SWISS:** P04179**Target:** SOD2**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml**Storage:** 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.**Background:** This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Reactivity:** Human, Mouse**Predicted MW.:** 22 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug  
 Lane 2: 293T (Human) Cell Lysate at 30 ug  
 Lane 3: Raw264.7 (Mouse) Cell Lysate at 30 ug  
 Primary: Anti-SOD2 (bsm-51267M) at 1/1000 dilution  
 Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution  
 Predicted band size: 22 kD  
 Observed band size: 22 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney); 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 (SOD2) Monoclonal Antibody, Unconjugated (bsm-51267M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human pancreatic cancer); 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 (SOD2) Monoclonal Antibody, Unconjugated (bsm-51267M) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.