

**bsm-52817R****[ Primary Antibody ]**

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**SOD1 Recombinant Rabbit mAb****DATASHEET****Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 4C1**GeneID:** 6647**SWISS:** P00441**Target:** SOD1**Immunogen:** A synthesized peptide derived from human SOD1: 120-154/154.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

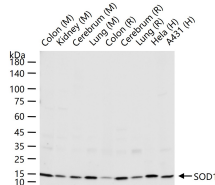
**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq, Jul 2008]

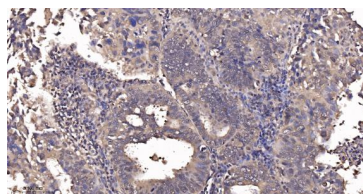
**Applications:** WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg/Test)**ICC/IF** (1:50-200)**Reactivity:** Human, Mouse, Rat

**Predicted**  
**MW.:** 17 kDa

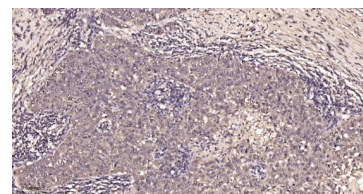
**Subcellular**  
**Location:** Cytoplasm ,Nucleus

**VALIDATION IMAGES**

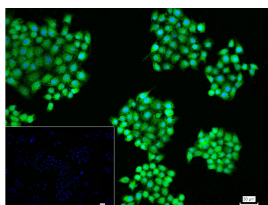
25 µg total protein per lane of various lysates (see on figure) probed with SOD1 monoclonal antibody, unconjugated (bsm-52817R) at 1:2000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Endometrial Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation SOD1 Monoclonal Antibody, Unconjugated(bsm-52817R) at 1:100 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation SOD1 Monoclonal Antibody, Unconjugated(bsm-52817R) at 1:100 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (SOD1) monoclonal Antibody, unconjugated (bsm-52817R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.