

bs-1211R**[Primary Antibody]****Bioss**
ANTIBODIES

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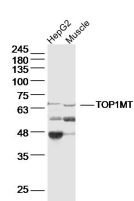
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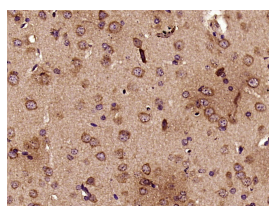
400-901-9800

TOP1MT Rabbit pAb**— DATASHEET —**

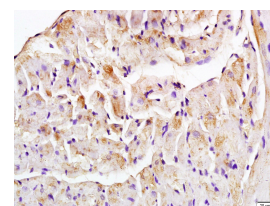
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 116447	SWISS: Q969P6	
Target: TOP1MT		Reactivity: Human, Mouse, Rat
Immunogen: KLH conjugated synthetic peptide derived from human TOP1mt: 366-488/601.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 66 kDa
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.		Subcellular Location: Cytoplasm
Background: This gene encodes a mitochondrial DNA topoisomerase that plays a role in the modification of DNA topology. The encoded protein is a type IB topoisomerase and catalyzes the transient breaking and rejoining of DNA to relieve tension and DNA supercoiling generated in the mitochondrial genome during replication and transcription. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012].		

— VALIDATION IMAGES —

Sample: HepG2 Cell Lysate at 40 ug Muscle (Mouse) Lysate at 40 ug
 Primary: Anti-TOP1MT (bs-1211R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 66 kD
 Observed band size: 66 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 (TOP1MT) Polyclonal Antibody, Unconjugated (bs-1211R) at 1:500 overnight at 4°C,
 followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
 Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min;
 Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;
 Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;
 Incubation: Anti-TOP1mt/TOPO-I Polyclonal Antibody, Unconjugated (bs-1211R) 1:200, overnight at 4°C,
 followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

— SELECTED CITATIONS —

- **[IF=11.561]** Hangas et al. Ciprofloxacin impairs mitochondrial DNA replication initiation through inhibition of Topoisomerase 2. (2018) Nucleic.Acids.Res. 46:9625-9636 WB ;Mouse. 30169847