## bs-1211R

# [ Primary Antibody ]

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# TOP1MT Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 116447 **SWISS:** Q969P6

Target: TOP1MT

Immunogen: KLH conjugated synthetic peptide derived from human TOP1mt:

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:** 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].

Applications: WB (1:500-2000)

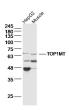
**IHC-P** (1:100-500) IHC-F (1:100-500) **IF** (1:100-500)

Reactivity: Human, Mouse, Rat

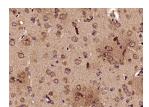
**Predicted** 66 kDa

Subcellular Cytoplasm Location:

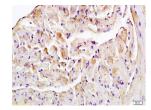
## VALIDATION IMAGES



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 paraffinembedded; Antigen retrieval: citrate buffer (  $0.01\mbox{M}, \, \mbox{pH}$  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
- [IF=3] Suna Karadeniz Saygılı. et al. Analysis of Endoplasmic Reticulum Stress Proteins in Spermatogenic Cells After Paclitaxel Administration. CURR ISSUES MOL BIOL. 2025 Aug;47(8):620 ICC; Mouse. 40864774