

**bs-1920R****[ Primary Antibody ]****BioSS**  
**ANTIBODIES**

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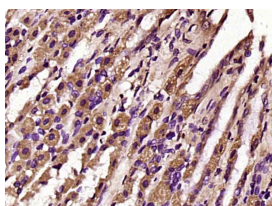
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**TOP2A Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500)
<b>Clonality:</b> Polyclonal		<b>IHC-F</b> (1:100-500)
<b>GeneID:</b> 7153	<b>SWISS:</b> P11388	<b>IF</b> (1:100-500)
<b>Target:</b> TOP2A		<b>Reactivity:</b> Rat (predicted: Human, Mouse, Rabbit, Pig, Cow, Chicken, Dog, Horse)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human TOP2 alpha: 551-650/1531.		<b>Predicted MW.:</b> 174 kDa
<b>Purification:</b> affinity purified by Protein A		<b>Subcellular Location:</b> Cytoplasm ,Nucleus
<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> This gene encodes a DNA topoisomerase, an enzyme that controls and alters the topologic states of DNA during transcription. This nuclear enzyme is involved in processes such as chromosome condensation, chromatid separation, and the relief of torsional stress that occurs during DNA transcription and replication. It catalyzes the transient breaking and rejoining of two strands of duplex DNA which allows the strands to pass through one another, thus altering the topology of DNA. Two forms of this enzyme exist as likely products of a gene duplication event. The gene encoding this form, alpha, is localized to chromosome 17 and the beta gene is localized to chromosome 3. The gene encoding this enzyme functions as the target for several anticancer agents and a variety of mutations in this gene have been associated with the development of drug resistance. Reduced activity of this enzyme may also play a role in ataxia-telangiectasia. [provided by RefSeq, Jul 2010]		

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (Rat stomach); 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 (TOP2A) Polyclonal Antibody, Unconjugated (bs-1920R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

**— SELECTED CITATIONS —**

- **[IF=5.834]** Jie Pei. et al. A single-cell transcriptomic atlas characterizes cell types and their molecular features in yak ovarian cortex. FASEB J. 2022 Dec;37(1):e22718 IF ;Yak. 36527406

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=6.208]** Jie Pei. et al. Single-Cell Transcriptomics Analysis Reveals a Cell Atlas and Cell Communication in Yak Ovary. INT J MOL SCI. 2023 Jan;24(3):1839 IF ;Yak. 36768166
- **[IF=2.65]** Ruoyang Lin. et al. Inhibitory Effects of Rabdosia rubescens in Esophageal Squamous Cell Carcinoma: Network Pharmacology and Experimental Validation. EVID-BASED COMPL ALT. 2022 Nov 10;2022:2696347 WB ;Human. 36408344