

bs-3952R**[Primary Antibody]****BioSS**
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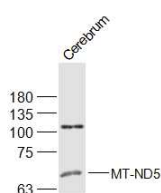
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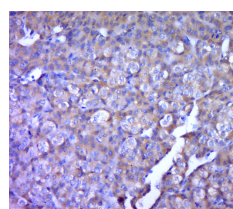
400-901-9800

MT-ND5 Rabbit pAb**— DATASHEET —**

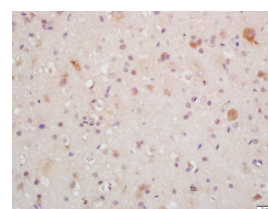
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 4540	SWISS: P03915	IHC-F (1:100-500)
Target: MT-ND5		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human MT-ND5: 451-550/603.		Reactivity: Human, Rat
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 67 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: Cell membrane ,Cytoplasm
Background: MT-ND5 is the core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.		

— VALIDATION IMAGES —

Sample: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-MT-ND5 (bs-3952R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 67 kD
Observed band size: 67 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); 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 (MT-ND5) Polyclonal Antibody, Unconjugated (bs-3952R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain 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-MT-ND5 Polyclonal Antibody, Unconjugated (bs-3952R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

— SELECTED CITATIONS —

- **[IF=7.7]** Yu Yang, et al. Deficiency of SLC26A3 promotes jejunal barrier damage in metabolic disease-susceptible transgenic pigs. INT J BIOL MACROMOL. 2024 Oct;136245 WB ;Pig. 39368571
- **[IF=5.2]** Wu, Ji-hong, et al. "Cumulative mtDNA damage and mutations contribute to the progressive loss of RGCs in a rat model of glaucoma." Neurobiology of Disease (2014). WB ;="Rat". 25478814