bs-3952R

[Primary Antibody]

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MT-ND5 Rabbit pAb

- DATASHEET -

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GenelD: 4540 **SWISS:** P03915

Target: MT-ND5

Immunogen: KLH conjugated synthetic peptide derived from human MT-ND5:

451-550/603.

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: 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.

Applications: WB (1:500-2000)

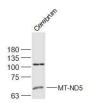
IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)

Reactivity: Human, Rat

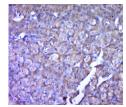
Predicted MW.: 67 kDa

Subcellular Location: Cell membrane ,Cytoplasm

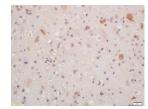
VALIDATION IMAGES



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 paraffinembedded; 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