

bs-18297R**[Primary Antibody]****LIPT2 Rabbit pAb****Bioss**
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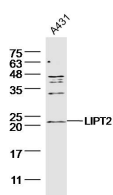
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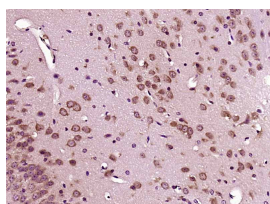
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 387787 Target: LIPT2 Immunogen: KLH conjugated synthetic peptide derived from human LIPT2: 32-130/231. 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: LIPT2 is a 231 amino acid mitochondrial protein that belongs to the LipB family. LIPT2 catalyzes the exchange of octanoic acid from octanoyl-acyl-carrier-protein to lipoate-dependent enzymes. The gene encoding LIPT2 maps to human chromosome 11, which comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.	Isotype: IgG SWISS: A6NK58 Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse (predicted: Rat, Dog, Horse) Predicted MW.: 23 kDa Subcellular Location: Cytoplasm
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— VALIDATION IMAGES —

Sample: A431(Human) Cell Lysate at 40 ug
Primary: Anti-LIPT2 (bs-18297R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 23 kD
Observed band size: 23 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 (LIPT2) Polyclonal Antibody, Unconjugated (bs-18297R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=6.7]** Jing Zhou. et al. KSHV vIL-6 promotes SIRT3-induced deacetylation of SERBP1 to inhibit ferroptosis and enhance cellular transformation by inducing lipoyltransferase 2 mRNA degradation. PLOS PATHOG. 2024

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

Mar;20(3):e1012082 WB,IHC ;Rat,Human. 38470932