Data Sheet (Cat.No.TMAB-11767)

TargetMol

Anti-PRODH Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Horse)
Molecular Weight:	Theoretical: 68 kDa. Actual: 68 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (PRODH) Polyclonal Antibody, Unconjugated (TMAB-11767) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 2. Sample: Lung (Mouse) Lysate at 40 µg Primary: Anti-PRODH (TMAB-11767) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD Observed band size: 68 kD
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human PRODH
Antigen Species:	Human
Gene ID:	5625
Uniprot ID:	O43272

Research Background

Proline oxidase catalyzes the conversion of proline to pyrroline-5-carboxylate, or P5C during the degradation of the amino acid Proline. Defects in PRODH are the cause of hyperprolinemia type 1, a disorder characterized by elevated serum proline levels. Defective PRODH may be involved in the psychiatric and behavioral phenotypes associated with the 22q11 velocardiofacial and DiGeorge syndrome and may be associated with susceptibility to schizophrenia 4 (SCZD4).

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