Data Sheet (Cat.No.TMAB-05165)

Anti-DIP13B Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Dog,Cow,Sheep)
Molecular Weight:	Theoretical: 74 kDa. Actual: 74 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Rat stomach); 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 (DCC interacting protein 13 beta; DIP13B) Polyclonal Antibody, Unconjugated (TMAB-05165) at 1: 200 overnight at 4°C, followed by a conjugated secondary antibody for 90 minutes. 2. Sample: Lovo Cell (Human) Lysate at 30 µg Primary: Anti-DIP13B (TMAB-05165) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 74 kD Observed band size: 76 kD 3. Sample: 293T Cell (Human) Lysate at 30 µg Primary: Anti-DIP13B (TMAB-05165) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 74 kD Observed band size: 76 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 DIP13B/APPL2
Antigen Species:	Human
Gene ID:	55198
Uniprot ID:	Q8NEU8

Research Background

The APPL family of proteins are involved in linking, trafficking and signaling downstream of tyrosine kinase receptors. APPL1, also designated adaptor protein containing pH domain, PTB domain and leucine zipper motif 1; APPL; or DCC interacting protein 13å (DIP13å), and APPL2, also designated adaptor protein containing pH domain,

PTB domain and leucine zipper motif 2 or DCC interacting protein 13∫ (DIP13∫), are involved in the coupling of epidermal growth factor (EGF) signaling and chromatin remodeling in the nucleus. They associate with GTPase Rab 5 and are released from the plasma membrane and translocated to the nucleus. In the nucleus, APPL1 and APPL2 associate with NuRD/MeCP1 and are essential for cell growth and proliferation. APPL2 also associates with follicle stimulating hormone receptor (FSHR). APPL2 is highly expressed in heart, brain, skeletal muscle, and kidney. APPL2 shares 54% homology with APPL1

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