



Rabbit Anti-DIP13B antibody

SL13631R

Product Name:	DIP13B
Chinese Name:	DIP13β抗体
Alias:	Adapter protein containing PH domain; Adapter protein containing PH domain PTB domain and leucine zipper motif 2; adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2; APLP2; Appl2; DCC interacting protein 13 beta; DCC-interacting protein 13-beta; Dip13 beta; Dip13-beta; DP13B_HUMAN; PTB domain and leucine zipper motif 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	74kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DIP13B/APPL2:101-200/664
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 13? (DIP13?), and APPL2, also designated adaptor protein containing pH domain, PTB domain and leucine zipper motif 2 or DCC interacting protein 13f (DIP13f), 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

Function:

Required for the regulation of cell proliferation in response to extracellular signals mediated by an early endosomal compartment. Links Rab5 to nuclear signal transduction.

Subcellular Location:

Early endosome membrane. Nucleus. Early endosomal membrane-bound and nuclear. Translocated into the nucleus upon release from endosomal membranes following internalization of EGF.

Tissue Specificity:

High levels in brain, heart, kidney and skeletal muscle.

DISEASE:

Note=A chromosomal aberration involving APPL2/DIP13B is found in patients with chromosome 22q13.3 deletion syndrome. Translocation t(12;22)(q24.1;q13.3) with SHANK3/PSAP2.

Similarity:

Contains 1 PH domain.
Contains 1 PID domain.

SWISS:

Q8NEU8

Gene ID:

55198

Database links:

[Entrez Gene: 55198](#) Human

[Entrez Gene: 216190](#) Mouse

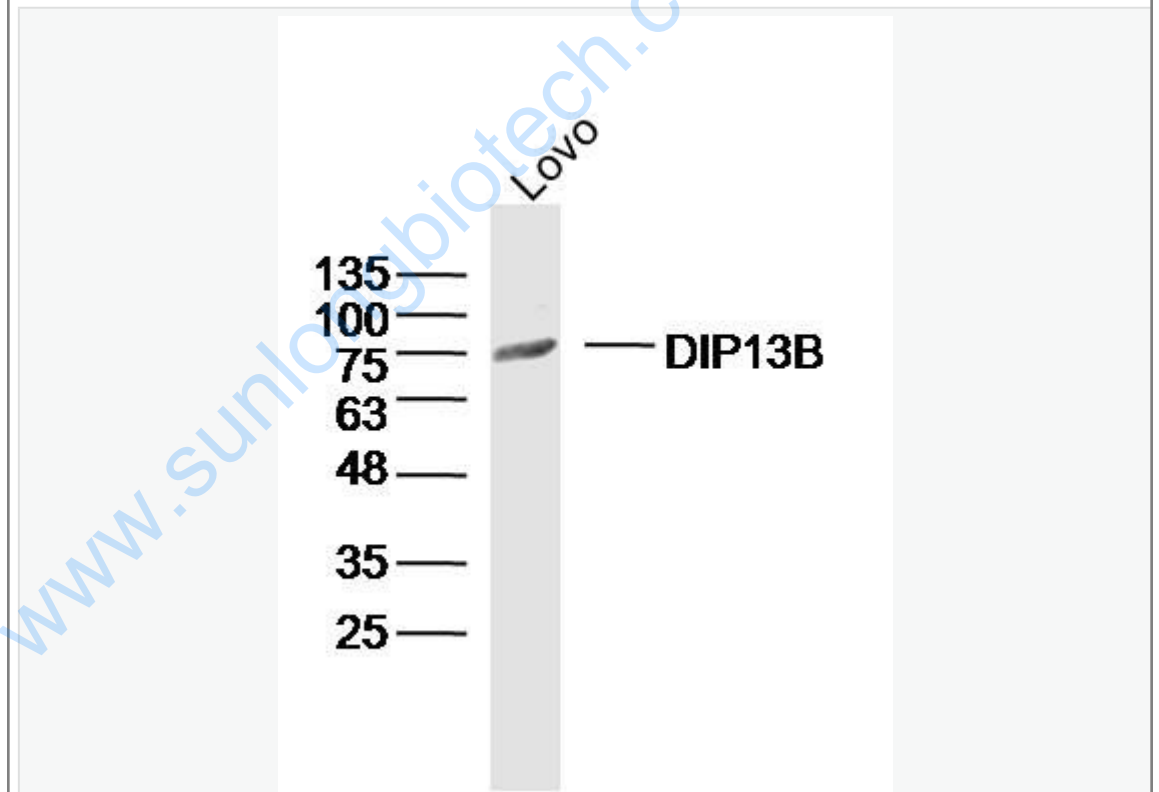
[Entrez Gene: 362860](#) Rat

[Omin: 606231](#) Human
[SwissProt: Q8NEU8](#) Human
[SwissProt: Q8K3G9](#) Mouse
[Unigene: 506603](#) Human
[Unigene: 282985](#) Mouse

Important Note:

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

Picture:



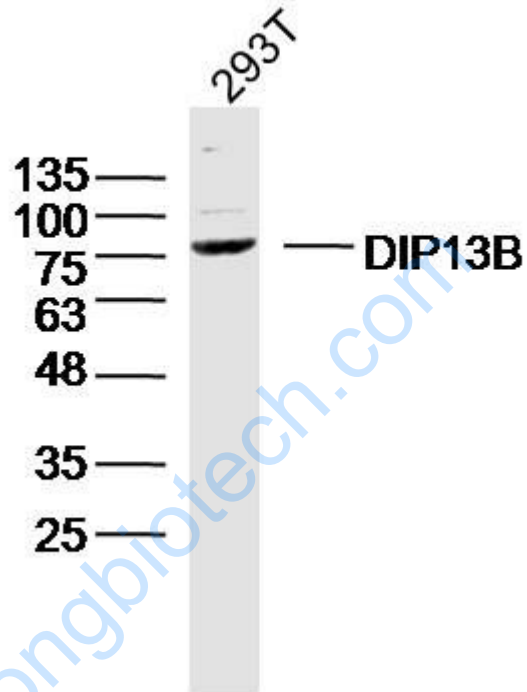
Sample: Lovo Cell (Human) Lysate at 30 ug

Primary: Anti-DIP13B (SL13631R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 74kD

Observed band size: 76kD



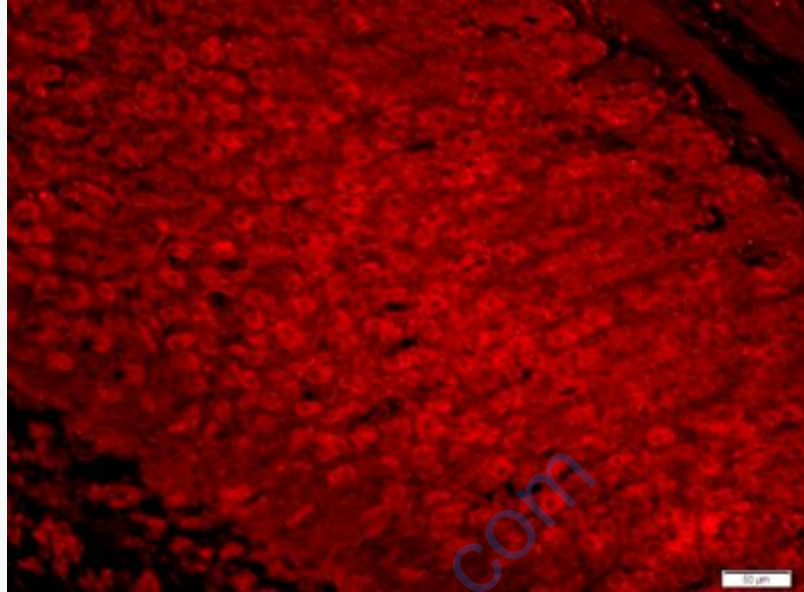
Sample: 293T Cell (Human) Lysate at 30 ug

Primary: Anti-DIP13B (SL13631R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 74kD

Observed band size: 76kD



Paraformaldehyde-fixed, paraffin embedded (Rat stomach); 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 (DCC interacting protein 13 beta; DIP13B) Polyclonal Antibody, Unconjugated (SL13631R) at 1:200 overnight at 4°C, followed by a conjugated secondary antibody (SL13631R) for 90 minutes .