



## Rabbit Anti-Beta tubulin cofactor D antibody

SL7849R

<b>Product Name:</b>	Beta tubulin cofactor D
<b>Chinese Name:</b>	微管蛋白β辅助因子D抗体
<b>Alias:</b>	Beta tubulin cofactor D; Beta-tubulin cofactor D; KIAA0988; SSD 1; SSD-1; SSD1; tbcd; TBCD_HUMAN; tfcD; Tubulin folding cofactor D; Tubulin specific chaperone D; Tubulin-folding cofactor D; Tubulin-specific chaperone D.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	133kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TBCD/Beta tubulin cofactor D:401-500/1192
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Tubulin-folding protein; involved in the first step of the tubulin folding pathway. Modulates microtubule dynamics by capturing GTP-bound beta-tubulin (TUBB). Acts as a GTPase-activating protein (GAP) for ARL2. Its ability to interact with beta tubulin is regulated via its interaction with ARL2. Induces microtubule disruption in absence of

ARL2. Increases degradation of beta tubulin, when overexpressed in polarized cells. Promotes epithelial cell detachment, a process antagonized by ARL2. Induces tight adherens and tight junctions disassembly at the lateral cell membrane.

**Function:**

Tubulin-folding protein; involved in the first step of the tubulin folding pathway. Modulates microtubule dynamics by capturing GTP-bound beta-tubulin (TUBB). Acts as a GTPase-activating protein (GAP) for ARL2. Its ability to interact with beta tubulin is regulated via its interaction with ARL2. Induces microtubule disruption in absence of ARL2. Increases degradation of beta tubulin, when overexpressed in polarized cells. Promotes epithelial cell detachment, a process antagonized by ARL2. Induces tight adherens and tight junctions disassembly at the lateral cell membrane.

**Subunit:**

Found in a complex with at least ARL2, PPP2CB, PPP2R1A, PPP2R2A, PPP2R5E and TBCD. Interacts with PPP2CB. Interacts with ARL2 (By similarity). Supercomplex made of cofactors A to E. Cofactors A and D function by capturing and stabilizing tubulin in a quasi-native conformation. Cofactor E binds to the cofactor D-tubulin complex; interaction with cofactor C then causes the release of tubulin polypeptides that are committed to the native state. Interacts with ARL2; interaction is enhanced with the GDP-bound form of ARL2. Does not interact with ARL3, ARL4A and ARL4D. Interacts with beta tubulin.

**Subcellular Location:**

Cell junction, tight junction (By similarity). Lateral cell membrane (By similarity). Cytoplasm (By similarity). Cell junction, adherens junction (By similarity). Note=Localized in cell-cell contacts (By similarity).

**Tissue Specificity:**

Ubiquitously expressed.

**Similarity:**

Belongs to the TBCD family.  
Contains 3 HEAT repeats.

**SWISS:**

Q9BTW9

**Gene ID:**

6904

**Database links:**

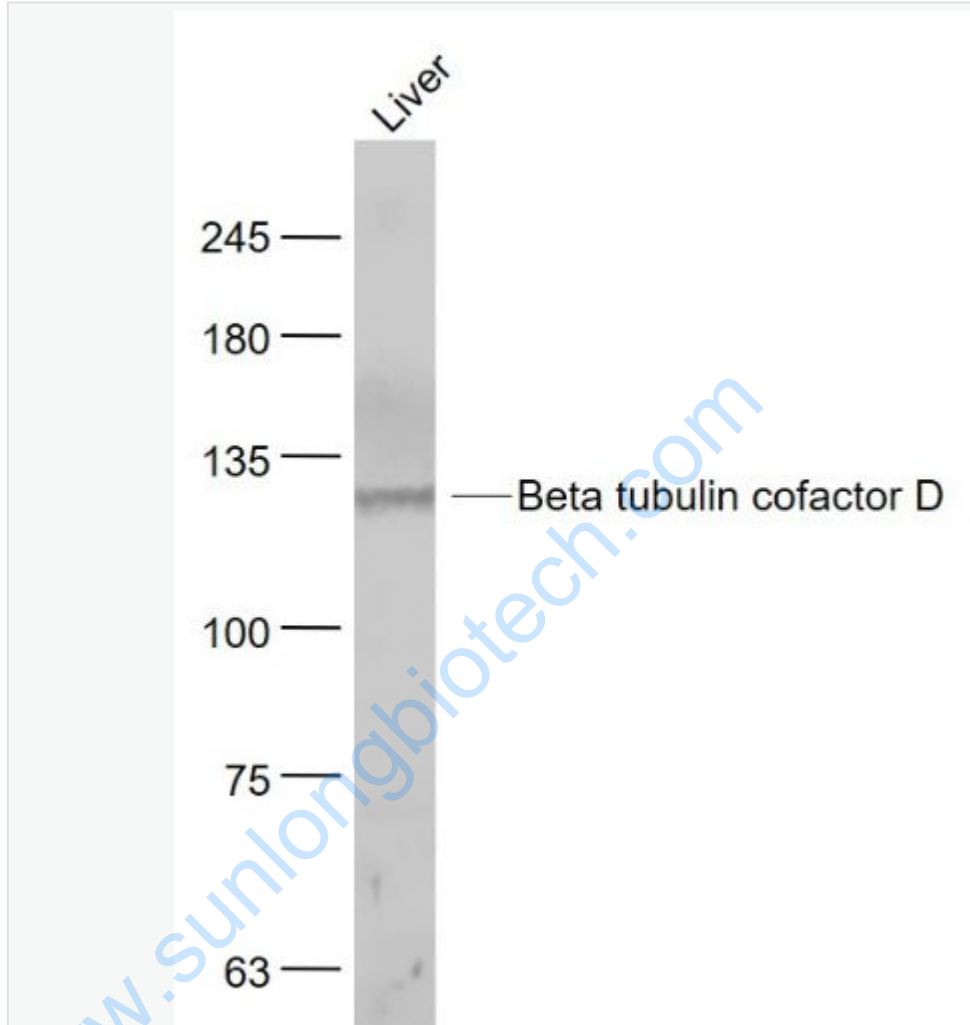
UniProtKB/Swiss-Prot: Q9BTW9.2

**Important Note:**

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



Sample:

Liver (Mouse) Lysate at 40 ug

Primary: Anti- Beta tubulin cofactor D (SL7849R) at 1/1000 dilution

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

Predicted band size: 133 kD

Observed band size: 133 kD