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Datasheet for ABIN7173750  
**anti-TBCD antibody (AA 2-96)**

2 Images

Overview

Quantity:	100 µg
Target:	TBCD
Binding Specificity:	AA 2-96
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TBCD antibody is un-conjugated
Application:	ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Tubulin-specific chaperone D protein (2-96AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	TBCD
Alternative Name:	TBCD ( <a href="#">TBCD Products</a> )
Background:	Background: Tubulin-folding protein implicated in the first step of the tubulin folding pathway and required for tubulin complex assembly. Involved in the regulation of microtubule

## Target Details

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polymerization or depolymerization, it modulates microtubule dynamics by capturing GTP-bound beta-tubulin (TUBB). Its ability to interact with beta tubulin is regulated via its interaction with ARL2. Acts as a GTPase-activating protein (GAP) for 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 (PubMed:10722852, PubMed:10831612, PubMed:11847227, PubMed:20740604, PubMed:27666370, PubMed:28158450). Required for correct assembly and maintenance of the mitotic spindle, and proper progression of mitosis (PubMed:27666370). Involved in neuron morphogenesis (PubMed:27666374).

Aliases: Beta tubulin cofactor D antibody, Beta-tubulin cofactor D antibody, KIAA0988 antibody, SSD 1 antibody, SSD-1 antibody, SSD1 antibody, tbcd antibody, TBCD\_HUMAN antibody, tfcD antibody, Tubulin folding cofactor D antibody, Tubulin specific chaperone D antibody, Tubulin-folding cofactor D antibody, Tubulin-specific chaperone D antibody

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UniProt: [Q9BTW9](#)

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Pathways: [Cell-Cell Junction Organization](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:200-1:500, IF:1:50-1:200,

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

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Preservative: ProClin

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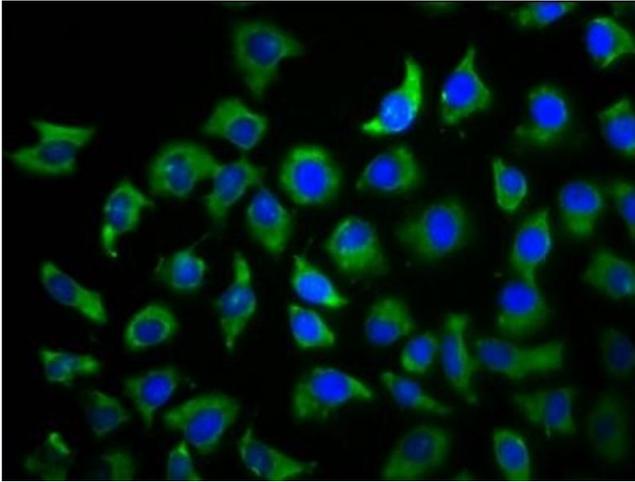
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C,-80 °C

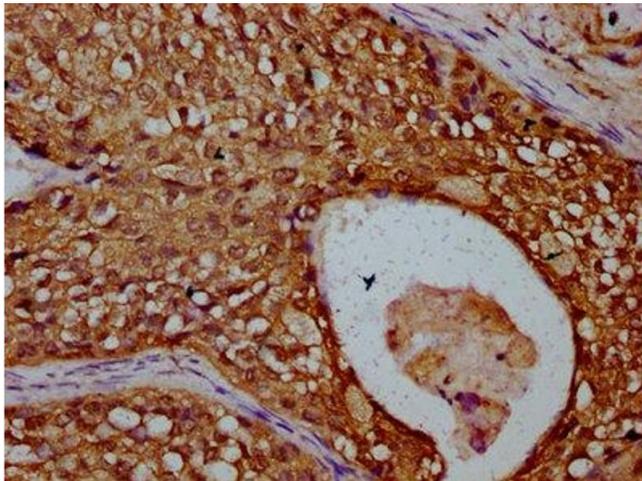
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Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



#### Immunofluorescence

**Image 1.** Immunofluorescence staining of A549 cells with ABIN7173750 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



#### Immunohistochemistry

**Image 2.** IHC image of ABIN7173750 diluted at 1:300 and staining in paraffin-embedded human cervical cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.