

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



[Go to Product page](#)

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 (TBCD Products)
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

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

UniProt: [Q9BTW9](#)

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

Application Details

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

Restrictions: For Research Use only

Handling

Format: Liquid

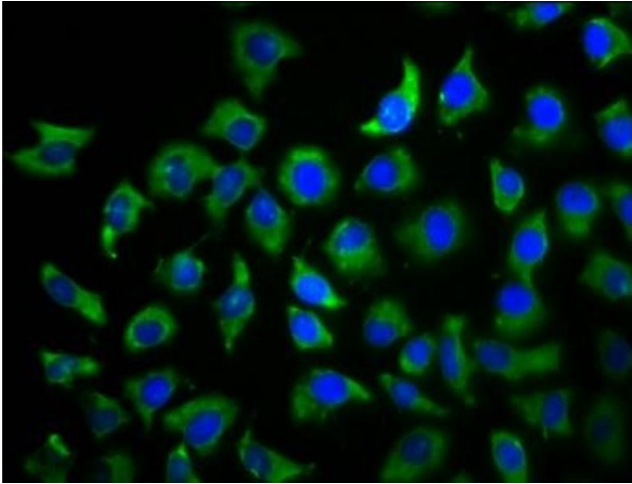
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

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

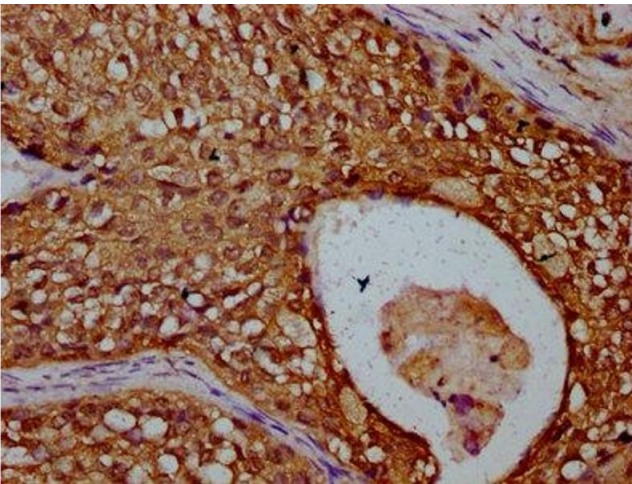
Storage: -20 °C,-80 °C

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.