

alpha Tubulin Monoclonal Antibody (TU-01)

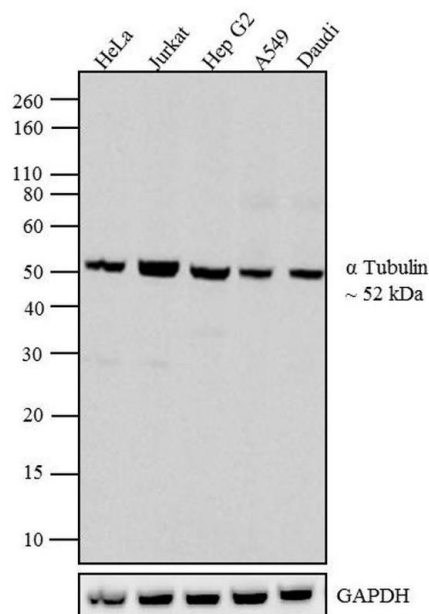
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Pig, Rat, Virus, Non-human primate, Protozoa, Mouse, Human, Xenopus
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	TU-01
Conjugate	Unconjugated
Immunogen	Reacts with peptides that correspond to aa 65-79 in the N-terminus of alpha-tubulin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Caprylic acid precipitation, Ammonium sulfate precipitation, sequential chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533035

Applications	Tested Dilution	Publications
Western Blot (WB)	1:250	33 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunohistochemistry (Frozen) (IHC (F))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	1:250	10 Publications
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	10 Publications

Product Images For alpha Tubulin Monoclonal Antibody (TU-01)

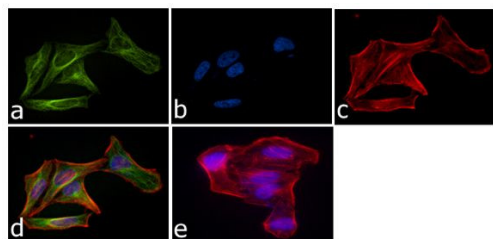
alpha Tubulin Antibody (13-8000) in WB

Western blot analysis of Alpha Tubulin was performed by loading 30 µg of HeLa (lane1), Jurkat (lane2), HepG2 (lane3), A549 (lane4) and Daudi (lane5) lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Alpha Tubulin was detected at 52 kDa using Alpha Tubulin Mouse Monoclonal Antibody (Product # 13-8000) at 1:250 dilution in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse IgG - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



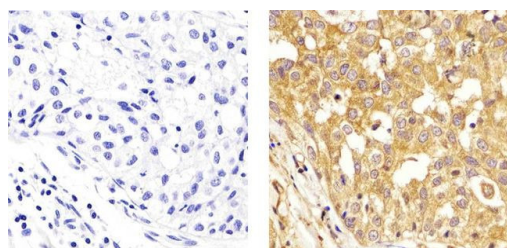
alpha Tubulin Antibody (13-8000) in ICC/IF

Immunofluorescent analysis of Alpha-Tubulin was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with Alpha-Tubulin Mouse monoclonal Antibody (Product # 13-8000) at 1:250 dilution in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 20X magnification.



alpha Tubulin Antibody (13-8000) in IHC (P)

Immunohistochemistry analysis of Alpha-Tubulin showing staining in the cytoplasm of paraffin-embedded human breast carcinoma tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a Alpha-Tubulin monoclonal antibody (Product # 13-8000) diluted in 3% BSA-PBS at a dilution of 1:50 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



[View more figures on thermofisher.cn](https://www.thermofisher.cn)

Western Blot (33)

<p>PloS one</p> <p>Effects of heterozygous deletion of autism-related gene Cullin-3 in mice.</p> <p>"13-8000 was used in Western Blotting to suggest that Cul3 heterozygous deletion impairs spatial object recognition memory, alters cytoskeletal organization proteins, but does not cause major hippocampal neuronal morphology, functional, or behavioral abnormalities in adult global Cul3 heterozygous mice."</p> <p>Authors: Xia QQ,Walker AK,Song C,Wang J,Singh A,Mobley JA,Xuan ZX,Singer JD,Powell CM</p>	<p>Year 2023</p> <p>Species Mouse</p> <p>Dilution 1:1,000</p>
<p>iScience</p> <p>Rab33b-exocyst interaction mediates localized secretion for focal adhesion turnover and cell migration.</p> <p>"13-8000 was used in Western Blotting to demonstrate a role for Rab33b in cell migration by regulating the delivery of integrins to focal adhesions through the interaction with Exoc6."</p> <p>Authors: Bjørnstad SA,Guadagno NA,Kjos I,Progida C</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:24000</p>

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (2)

<p>Molecular cell</p> <p>Localization of a TORC1-eIF4F translation complex during CD8⁺ T cell activation drives divergent cell fate.</p> <p>"13-8000 was used in Immunohistochemistry-immunofluorescence to provide mechanistic insights as to how distinct T cell fate trajectories can be established during the first division."</p> <p>Authors: Liedmann S,Liu X,Guy CS,Crawford JC,Rodriguez DA,Kuzuolu-Öztürk D,Guo A,Verbist KC,Temirov J,Chen MJ,Ruggero D,Zhang H,Thomas PG,Green DR</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
<p>Experimental cell research</p> <p>The X11L/X11beta/MINT2 and X11L2/X11gamma/MINT3 scaffold proteins shuttle between the nucleus and cytoplasm.</p> <p>"13-8000 was used in immunohistochemistry to determine X11L and X11L2 nuclear export signal sequence and quantify protein recovery in nuclear fraction of mouse brain homogenates after leptomycin B treatment"</p> <p>Authors: Sumioka A,Saito Y,Sakuma M,Araki Y,Yamamoto T,Suzuki T</p>	<p>Year 2008</p>

More applications with references on thermofisher.cn

- ICC/IF (10)
- FN (1)
- Misc (10)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.