

alpha Tubulin Monoclonal Antibody (TU-01)

Product Details	
Size	100 µg
Species Reactivity	Human, Many, Mouse, Pig, Rat
Published Species	Pig, Rat, Non-human primate, Protozoa, Bovine, Human, Mouse, Xenopus
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	TU-01
Conjugate	Unconjugated
Immunogen	Fraction of tubulin purified from porcine brain by two cycles of polymerization - depolymerization.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_1070259

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	19 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	3 Publications
Flow Cytometry (Flow)	1-4 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	9 Publications

Product Specific Information

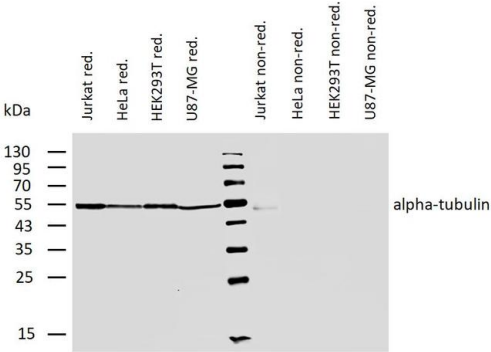
This antibody recognizes the defined epitope (aa 65-97) on N-terminal structural domain of alpha-tubulin.

HPB-ALL human peripheral blood leukemia cell line is the suggested positive control (incubate for 90 mins).

Antibodies to this protein (and modification) were previously sold as part of a Thermo Scientific Cellomics High Content Screening Kit. This replacement antibody is now recommended for researchers who need an antibody for high content cell based assays. It has been thoroughly tested and validated for cellular immunofluorescence (IF) applications. Further optimization including the selection of the most appropriate fluorescent Dylight conjugated secondary antibody may have to be performed for your high content assay.

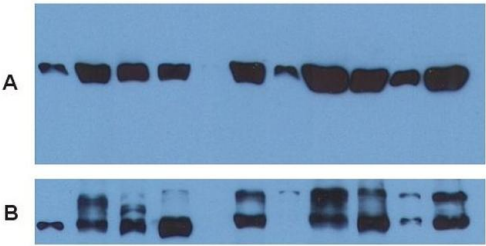
Western Blot: Reducing conditions.

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



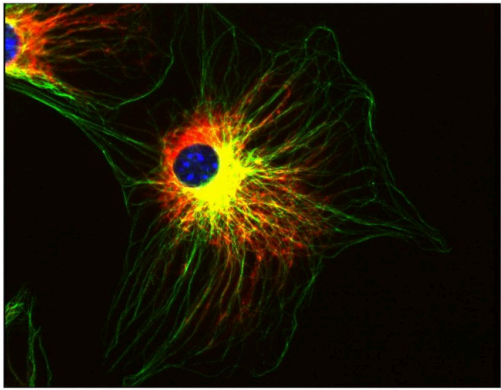
alpha Tubulin Antibody (MA1-19162) in WB

Western blotting analysis of human alpha-tubulin using mouse monoclonal antibody TU-01 (Product # MA1-19162) on lysates of Jurkat, HeLa, HEK-293T, and U-87 MG cell lines under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2µg/mL of mouse anti-alpha-tubulin monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for alpha-tubulin at approximately 54kDa.



alpha Tubulin Antibody (MA1-19162) in WB

Use of anti-alpha-tubulin TU-01 Monoclonal antibody (Product # MA1-19162) as a loading control (A) in an Western blotting experiment revealing the staining pattern of various cell lysates by a newly developed monoclonal antibody (B).



alpha Tubulin Antibody (MA1-19162) in ICC/IF

Immunocytochemistry staining of 3T3 mouse embryonal fibroblast cell line using anti-alpha-tubulin (TU-01; green) Monoclonal antibody (Product # MA1-19162) and anti-Vimentin (VI-01; red). Nucleus is stained with DAPI (blue).

View more figures on thermofisher.com

Western Blot (19)

<p>Nature</p> <p>Structural basis of tankyrase activation by polymerization.</p> <p>"MA1-19162 was used in Western Blotting to reveal a novel SAM domain polymerization mode, illustrate how supramolecular assembly controls catalytic and non-catalytic functions and provide important structural insights into the regulation of a non-DNA-dependent poly-ADP-ribosyltransferase."</p> <p>Authors: Pillay N,Mariotti L,Zaleska M,Inian O,Jessop M,Hibbs S,Desfosses A,Hopkins PCR,Templeton CM,Beuron F, Morris EP,Guettler S</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:1000</p>
<p>Frontiers in physiology</p> <p>The Mediator Subunit, Med23 Is Required for Embryonic Survival and Regulation of Canonical WNT Signaling During Cranial Ganglia Development.</p> <p>"MA1-19162 was used in Western Blotting to reveal a surprisingly tissue specific role for the ubiquitously expressed mediator complex protein Med23 in placode differentiation during cranial ganglia development."</p> <p>Authors: Dash S,Bhatt S,Sandell LL,Seidel CW,Ahn Y,Krumlauf RE,Trainor PA</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:1,000</p>

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

Immunohistochemistry (2)

<p>Cell death and differentiation</p> <p>Epidermal Snail expression drives skin cancer initiation and progression through enhanced cytoprotection, epidermal stem /progenitor cell expansion and enhanced metastatic potential.</p> <p>"Published figure using alpha Tubulin monoclonal antibody (Product # MA1-19162) in Immunofluorescence"</p> <p>Authors: De Craene B,Denecker G,Vermassen P,Taminau J,Mauch C,Derore A,Jonkers J,Fuchs E,Berx G</p>	<p>Year 2014</p> <p>Species Mouse</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>"MA1-19162 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.com

- ICC/IF (3)
- Misc (9)

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.