

# beta Tubulin Monoclonal Antibody (AA10)

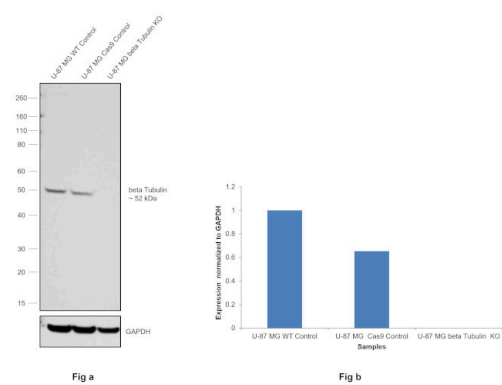
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	AA10
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to beta III tubulin
Form	Liquid
Purification	Protein G
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2532242

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:10,000	2 Publications
Immunohistochemistry (IHC)	1:1,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunocytochemistry (ICC/IF)	1:250	6 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For beta Tubulin Monoclonal Antibody (AA10)

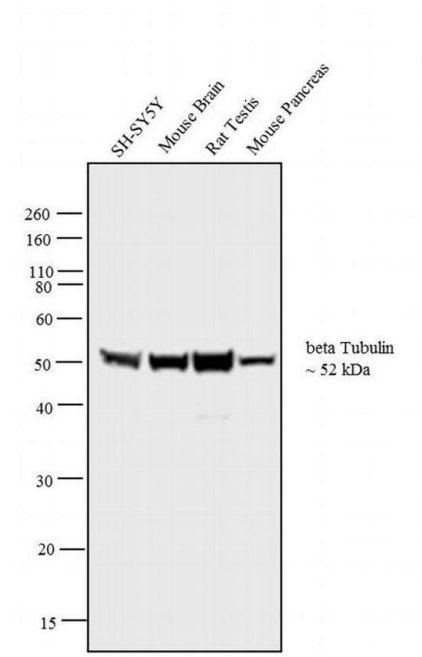
beta Tubulin Antibody (480011)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in beta Tubulin KO cell line compared to control cell line using beta Tubulin Monoclonal Antibody (AA10) (Product # 480011). {KO}



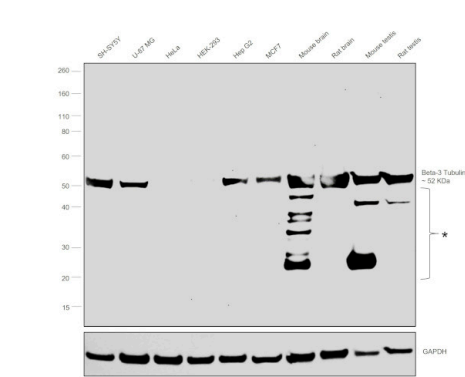
beta Tubulin Antibody (480011) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of SH-SY5Y (Lane 1), tissue extracts of Mouse Brain (Lane 2), Rat Testis (Lane 3) and Mouse Pancreas (Lane 4). The blot was probed with Anti-beta Tubulin Mouse Monoclonal Antibody (Product # 480011, 1:10000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 52 kDa band corresponding to beta Tubulin was observed across the cell line and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



beta Tubulin Antibody (480011)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissue models tested owing to their inherent genetic constitution. Relative expression of beta-3 Tubulin was observed across cell lines and tissues tested except HeLa and HEK-293 which are reported to be negative using Anti-beta Tubulin Monoclonal Antibody (AA10) (Product # 480011) in western blot. {RE}



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## Western Blot (2)

<p>Translational psychiatry</p> <p><b>Transcranial photobiomodulation prevents PTSD-like comorbidities in rats experiencing underwater trauma.</b></p> <p>"Published figure using beta Tubulin monoclonal antibody (Product # 480011) in Western Blot"</p> <p>Authors: Li Y,Dong Y,Yang L,Tucker L,Yang B,Zong X,Hamblin MR,Zhang Q</p>	<p>Year 2021</p> <p>Species Rat</p>
<p>PloS one</p> <p><b>FHL1 reduces dystrophy in transgenic mice overexpressing FSHD muscular dystrophy region gene 1 (FRG1).</b></p> <p>"Published figure using beta Tubulin monoclonal antibody (Product # 480011) in Western Blot"</p> <p>Authors: Feeney SJ,McGrath MJ,Sriratana A,Gehrig SM,Lynch GS,D'Arcy CE,Price JT,McLean CA,Tupler R,Mitchell CA</p>	<p>Year 2015</p> <p>Species Mouse</p> <p>Dilution 1:5000</p>

## Immunohistochemistry (1)

<p>Tissue engineering. Part A</p> <p><b>Photocrosslinkable Gelatin/Tropoelastin Hydrogel Adhesives for Peripheral Nerve Repair.</b></p> <p>"Published figure using beta Tubulin monoclonal antibody (Product # 480011) in Immunofluorescence"</p> <p>Authors: Soucy JR,Shirzaei Sani E,Portillo Lara R,Diaz D,Dias F,Weiss AS,Koppes AN,Koppes RA,Annabi N</p>	<p>Year 2018</p> <p>Species Rat</p> <p>Dilution 1:400</p>
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## Immunocytochemistry (6)

<p>Experimental and therapeutic medicine</p> <p><b>Effect of the interference with DRP1 expression on the biological characteristics of glioma stem cells.</b></p> <p>"480011 was used in Immunocytochemistry-immunoflourescence to provide an experimental basis for a novel strategy of cancer treatment with tumor stem cells as the target."</p> <p>Authors: Zhang L,Cao H,Tao H,Yang J,Gong W,Hu Q</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:250</p>
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### Misc (1)

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