

beta Tubulin Loading Control Monoclonal Antibody (BT7R), Biotin

Product Details

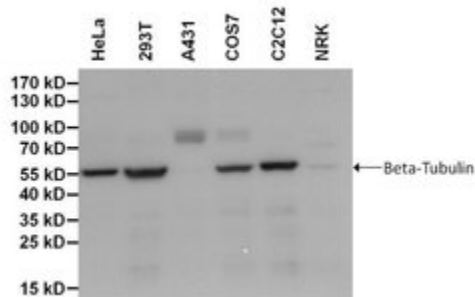
| | |
|--------------------|---|
| Size | 50 µL |
| Species Reactivity | Chicken, Human, Mouse, Non-human primate, Rabbit, Rat |
| Published Species | Human |
| Host/Isotype | Mouse / IgG2a |
| Class | Monoclonal |
| Type | Antibody |
| Clone | BT7R |
| Conjugate | Biotin |
| Immunogen | KLH conjugated peptide of the N-terminus of Beta-Tubulin. |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS with proprietary stabilizer |
| Contains | 0.02% sodium azide |
| Storage conditions | 4° C, do not freeze |
| RRID | AB_2537821 |

| Applications | Tested Dilution | Publications |
|---|-----------------|---------------|
| Western Blot (WB) | 1:500-1:1,000 | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:10-1:500 | - |
| Immunocytochemistry (ICC/IF) | 1:20-1:200 | - |
| Flow Cytometry (Flow) | 1 µg/test | - |
| ELISA (ELISA) | Assay-dependent | - |

Product Specific Information

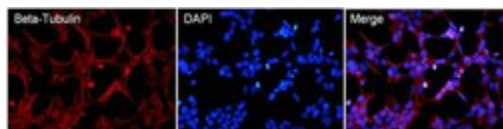
MA5-16308-BTIN has successfully been used for Western blot, IHC (P), FACS, ELISA and ICC/IF

Product Images For beta Tubulin Loading Control Monoclonal Antibody (BT7R), Biotin



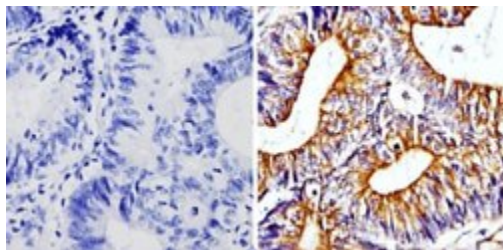
beta Tubulin Loading Control Antibody (MA5-16308-BTIN) in WB

Western blot analysis of Beta-Tubulin was performed by loading 50 µg of various cell lysates per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a biotinylated Beta-Tubulin monoclonal antibody (Product # MA5-16308-BTIN) at a dilution of 1:1000 for 1 hour at room temperature, followed by Streptavidin-HRP (Product # 21126) at a dilution of 1:20,000 for 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078).



beta Tubulin Loading Control Antibody (MA5-16308-BTIN) in ICC/IF

Immunofluorescent analysis of Beta-Tubulin (red) in HEK293T cells. Cells fixed in 4% formaldehyde were permeabilized and blocked with 1X PBS containing 5% BSA and 0.3% Triton X-100 for 1 hour at room temperature. Cells were probed with a Beta-Tubulin monoclonal antibody (Product # MA5-16308) at a dilution of 1:100 overnight at 4°C in 1X PBS containing 1% BSA and 0.3% Triton X-100, washed with 1X PBS, and incubated with a fluorophore-conjugated goat anti-mouse IgG secondary antibody at a dilution of 1:200 for 1 hour at room temperature. Nuclei (blue) were stained with DAPI. Images were taken on a Leica DM1000 microscope at 40X magnification. Data courtesy of the Innovators Program.



beta Tubulin Loading Control Antibody (MA5-16308-BTIN) in IHC (P)

Immunohistochemistry analysis of Beta-Tubulin showing staining in the cytoskeleton of paraffin-embedded human colon carcinoma (right) compared with 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 Beta-Tubulin loading control antibody (Product # MA5-16308) diluted in 3% BSA-PBS at a dilution of 1:100 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.

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Western Blot (1)

The Journal of biological chemistry

Constitutive SRC-mediated phosphorylation of pannexin 1 at tyrosine 198 occurs at the plasma membrane.

"MA5-16308-BTIN was used in Western Blotting to implicate SRC-mediated PANX1 function in normal vascular hemodynamics."

Authors: DeLalio LJ, Billaud M, Ruddiman CA, Johnstone SR, Butcher JT, Wolpe AG, Jin X, Keller TCS, Keller AS, Rivière T, Good ME, Best AK, Lohman AW, Swayne LA, Penuela S, Thompson RJ, Lampe PD, Yeager M, Isakson BE

Species
Human

Dilution
1:5000

Year
2019

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