

# beta Actin Monoclonal Antibody (BA3R), HRP

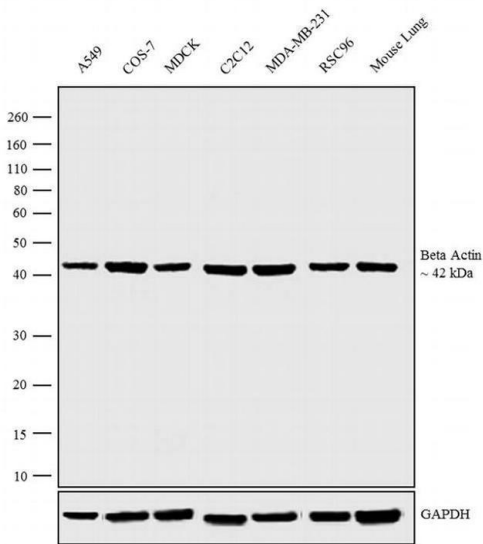
| Product Details    |                                                            |
|--------------------|------------------------------------------------------------|
| Size               | 50 µL                                                      |
| Species Reactivity | Dog, Chicken, Human, Mouse, Non-human primate, Rabbit, Rat |
| Published Species  | Rat, Fruit fly, Hamster, Mouse, Human                      |
| Host/Isotype       | Mouse / IgG2b                                              |
| Class              | Monoclonal                                                 |
| Type               | Antibody                                                   |
| Clone              | BA3R                                                       |
| Conjugate          | HRP                                                        |
| Immunogen          | Beta-actin N-terminal peptide.                             |
| Form               | Liquid                                                     |
| Concentration      | 1 mg/mL                                                    |
| Purification       | Protein A                                                  |
| Contains           | 0.07% Kathon                                               |
| Storage conditions | 4° C                                                       |
| RRID               | AB_2537667                                                 |

| Applications                 | Tested Dilution | Publications    |
|------------------------------|-----------------|-----------------|
| Western Blot (WB)            | 1 µg/mL         | 39 Publications |
| Immunocytochemistry (ICC/IF) | -               | 1 Publication   |

## Product Specific Information

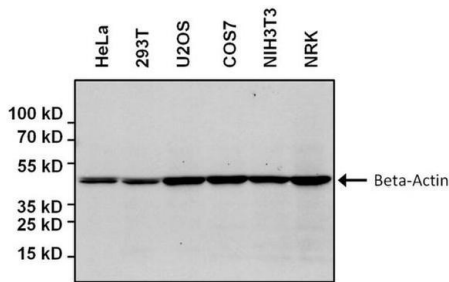
MA5-15739-HRP has been successfully used in Western blotting applications with human, mouse, rat, rabbit, and chicken samples.

Product Images For beta Actin Monoclonal Antibody (BA3R), HRP



beta Actin Antibody (MA5-15739-HRP) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), COS-7 (Lane 2), MDCK (Lane 3), C2C12 (Lane 4), MDA-MB-231 (Lane 5), RSC96 (Lane 6) and tissue extracts of Mouse Lung (Lane 7). The blot was probed with beta Actin Monoclonal Antibody (BA3R), HRP (Product # MA5-15739-HRP, 1 µg/mL) and detected by chemiluminescence. A 42 kDa band corresponding to beta Actin was observed across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% 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 Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



beta Actin Antibody (MA5-15739-HRP) in WB

Western blot analysis of Beta-Actin was performed by loading 30 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 an HRP-conjugated Beta-Actin monoclonal antibody (Product # MA5-15739-HRP) at a dilution of 1:1000 for 1 hour at room temperature on a rocking platform and washed in TBS-0.1% Tween-20. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).

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Western Blot (39)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <p>NPJ breast cancer</p> <p><b>Human snoRNA-93 is processed into a microRNA-like RNA that promotes breast cancer cell invasion.</b></p> <p>"MA5-15739-HRP was used in Western Blotting to indicate that sdRNA-93 expression actively contributes to the malignant phenotype of breast cancer through participating in microRNA-like regulation."</p> <p>Authors: Patterson DG,Roberts JT,King VM,Houserova D,Barnhill EC,Crucello A,Polska CJ,Brantley LW,Kaufman GC,Nguyen M,Santana MW,Schiller IA,Spicciani JS,Zapata AK,Miller MM,Sherman TD,Ma R,Zhao H,Arora R,Coley AB,Zeidan MM,Tan M,Xi Y,Borchert GM</p> | <p>Year<br/>2023</p> <p>Species<br/>Human</p> <p>Dilution<br/>1:5000</p> |
| <p>Journal of applied toxicology : JAT</p> <p><b>Interaction between environmental pollutants and cancer drug efficacy: Bisphenol A, Bisphenol A diglycidyl ether and Perfluorooctanoic acid reduce vincristine cytotoxicity in acute lymphoblastic leukemia cells.</b></p> <p>"Published figure using beta Actin monoclonal antibody (Product # MA5-15739-HRP) in Western Blot"</p> <p>Authors: Lagunas-Rangel FA,Liu W,Schiöth HB</p>                                                                                                                                                                            | <p>Year<br/>2023</p>                                                     |

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Immunocytochemistry (1)

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <p>Scientific reports</p> <p><b>Genetically unmatched human iPSC and ESC exhibit equivalent gene expression and neuronal differentiation potential.</b></p> <p>"MA5-15739-HRP was used in Immunocytochemistry to indicate close molecular similarities between genetically unmatched hESCs and hiPS in term of gene expression, and signalling pathways."</p> <p>Authors: Marei HE,Althani A,Lashen S,Cenciarelli C,Hasan A</p> | <p>Year<br/>2017</p> <p>Species<br/>Human</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|

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