

GAPDH Loading Control Monoclonal Antibody (GA1R), DyLight™ 680

| Product Details | |
|-------------------------|--|
| Size | 50 µL |
| Species Reactivity | Bacteria, Chicken, Hamster, Human, Insect, Mouse, Rabbit, Rat, Yeast |
| Published Species | Human, Mouse |
| Host/Isotype | Mouse / IgG1 |
| Class | Monoclonal |
| Type | Antibody |
| Clone | GA1R |
| Conjugate | DyLight™ 680 |
| Excitation/Emission Max | 676/705 nm |
| Immunogen | Recombinant GAPDH |
| 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_2537657 |

| Applications | Tested Dilution | Publications |
|------------------------------|-----------------|----------------|
| Western Blot (WB) | 1 µg/mL | 9 Publications |
| Immunocytochemistry (ICC/IF) | 1:25-1:100 | - |
| Flow Cytometry (Flow) | - | 1 Publication |

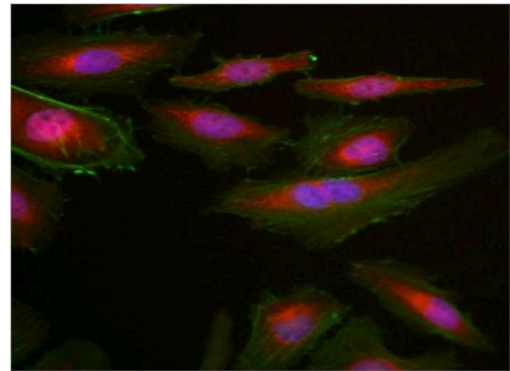
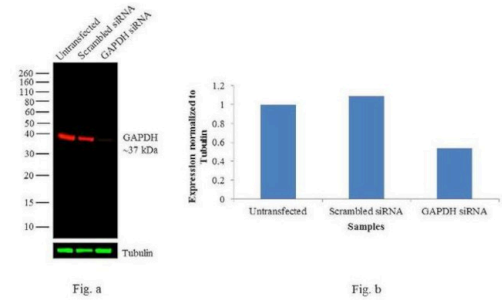
Product Specific Information

MA5-15738-D680 has successfully been used in immunofluorescence and Western blot applications. DyLight 680 has an excitation/emission of 692/712 nm.

Product Images For GAPDH Loading Control Monoclonal Antibody (GA1R), DyLight™ 680

GAPDH Loading Control Antibody (MA5-15738-D680)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with alpha GAPDH siRNA and loss of signal was observed in Western Blot using Anti-GAPDH Loading Control Monoclonal Antibody (GA1R), DyLight 680 (Product # MA5-15738-D680). {KD}

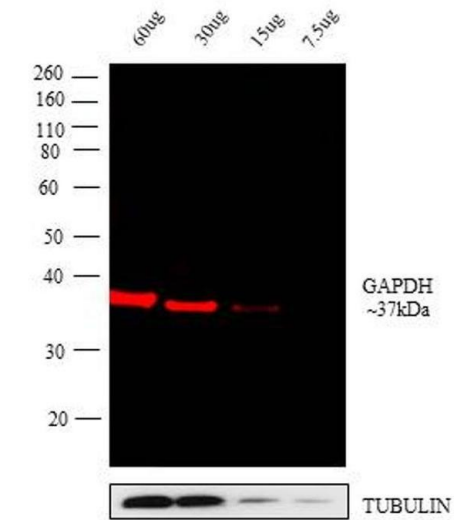


GAPDH Loading Control Antibody (MA5-15738-D680) in ICC/IF

Immunofluorescent analysis of GAPDH (red) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a DyLight 680-conjugated GAPDH monoclonal antibody (Product # MA5-15738-D680) at a dilution of 1:50 for at least 1 hour at room temperature. F-actin (green) was stained with DyLight 488 Phalloidin (Product # 21833) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan or ToxInsight Instrument at 20X magnification.

GAPDH Loading Control Antibody (MA5-15738-D680) in WB

Western blot analysis was performed on whole cell extracts of A431 - 60 µg lysate (Lane 1), 30 µg lysate (Lane 2), 15 µg lysate (Lane 3) and 7.5 µg lysate (Lane 4). The blots were probed with GAPDH Loading Control Mouse Monoclonal Antibody (GA1R), DyLight 680 (Product # MA5-15738-D680).A 37 kDa band corresponding to GAPDH was observed across different concentrations of lysate tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), 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. The membrane was probed with the relevant primary and secondary antibody after blocking with 5 % skimmed milk. Fluorescent detection was performed using the Odyssey® Fc imaging system (Li-cor Biosciences).



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Western Blot (9)

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| <p>Pharmaceuticals (Basel, Switzerland)</p> <p>The Anti-Melanoma Effect of Betulinic Acid Functionalized Gold Nanoparticles: A Mechanistic In Vitro Approach.</p> <p>"MA5-15738-D680 was used in Western Blotting to propose a biological in vitro assessment of betulinic acid (BA)-functionalized GNP."</p> <p>Authors: Ghiulai R,Mioc A,Racoviceanu R,Mioc M,Milan A,Prodea A,Semenescu A,Dehelean C,Barbu Tudoran L,Avram Ț,Trandafirescu C,Țoica C</p> | <p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:1000</p> |
| <p>Cell reports</p> <p>Axonal generation of amyloid- from palmitoylated APP in mitochondria-associated endoplasmic reticulum membranes.</p> <p>"MA5-15738-D680 was used in Western Blot to suggest therapeutic strategies for reducing axonal release of A and attenuating -amyloid pathology in AD."</p> <p>Authors: Bhattacharyya R,Black SE,Lotlikar MS,Fenn RH,Jorfi M,Kovacs DM,Tanzi RE</p> | <p>Year 2021</p> <p>Species Human</p> |

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Flow Cytometry (1)

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| <p>American journal of human genetics</p> <p>Multi-parametric analysis of 57 SYNGAP1 variants reveal impacts on GTPase signaling, localization, and protein stability.</p> <p>"MA5-15738-D680 was used in Flow Cytometry to highlight multiple independent molecular mechanisms underlying variant dysfunction."</p> <p>Authors: Meili F,Wei WJ,Sin WC,Meyers WM,Dascalu I,Callaghan DB,Rogic S,Pavlidis P,Haas K</p> | <p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:50</p> |
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