

# KD-Validated Anti-Sirtuin 5 Mouse Monoclonal Antibody

*Mouse monoclonal antibody*

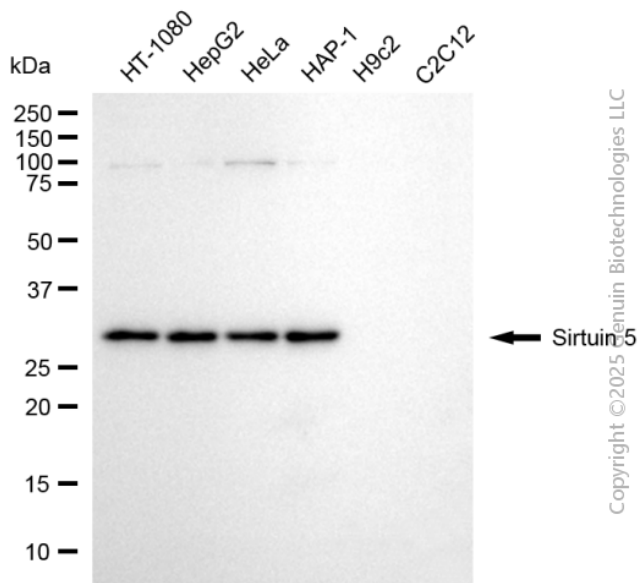
ABG2080

## Product Overview

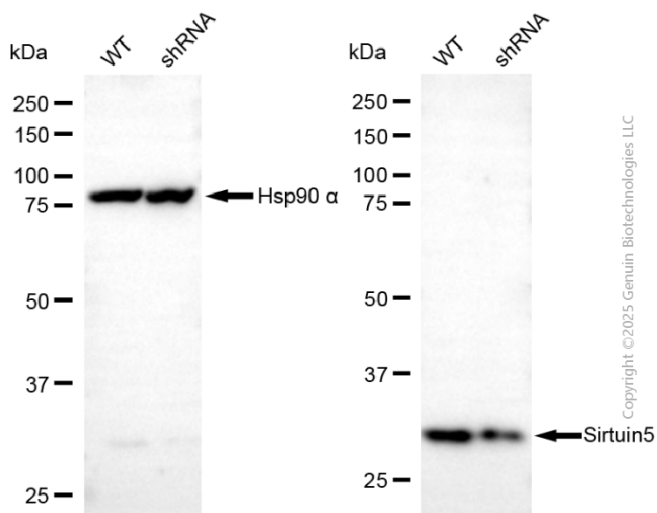
|                             |                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Name</b>                 | KD-Validated Anti-Sirtuin 5 Mouse Monoclonal Antibody                                                    |
| <b>Accession(Primary)</b>   | Q9NXA8                                                                                                   |
| <b>Host Species</b>         | Mouse                                                                                                    |
| <b>Clonality</b>            | Monoclonal                                                                                               |
| <b>Isotype</b>              | Mouse IgG1                                                                                               |
| <b>Immunogen</b>            | Recombinant protein of human SIRT5                                                                       |
| <b>Species Reactivity</b>   | Human                                                                                                    |
| <b>Calculated MW</b>        | Predicted, 34 kDa, observed, 30 kDa                                                                      |
| <b>Storage Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.                                |
| <b>Recommended Dilution</b> | Western Blotting (WB): 1:500-1:2,500Flow Cytometry (FCM): 1:2,000Immunocytochemistry (IC): 1:100-1:1,000 |

## Target information (Q9NXA8)

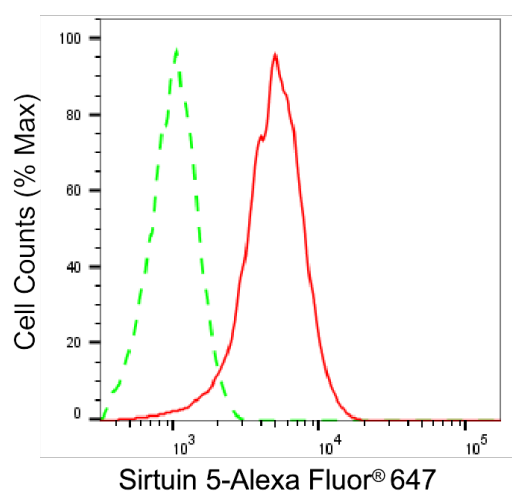
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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | SIRT5                                                                                                                                                                                                                                                           |
| <b>About Gene Symbol</b> | SIRT5 (Sirtuin 5) is a metabolic enzyme involved in cellular metabolism. It is an important research target in metabolic disease, cancer metabolism, and drug discovery and is widely studied to elucidate cellular mechanisms and identify therapeutic targets |



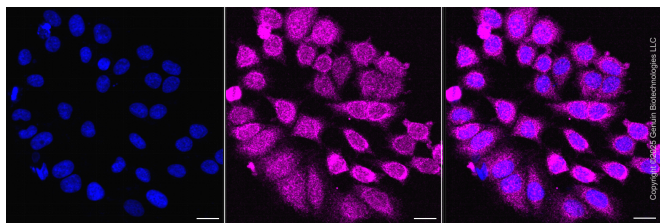
Western blotting analysis using anti-sirtuin 5 antibody (Cat#ABG2080). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-sirtuin 5 antibody (Cat#ABG2080, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-sirtuin 5 antibody (Cat#ABG2080). Sirtuin 5 expression in wild-type (WT) and sirtuin 5 (SIRT5) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-sirtuin 5 antibody (Cat#ABG2080, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of Sirtuin 5 expression in HepG2 cells using anti-Sirtuin 5 antibody (Cat#ABG2080, 1:2,000). Green, isotype control; red, Sirtuin 5.



Immunocytochemical staining of HepG2 cells with anti-Sirtuin 5 associated protein antibody (Cat#ABG2080, 1:1,000). Nuclei were stained blue with DAPI; Sirtuin 5 associated protein was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.