

# KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody

*Rabbit monoclonal antibody*

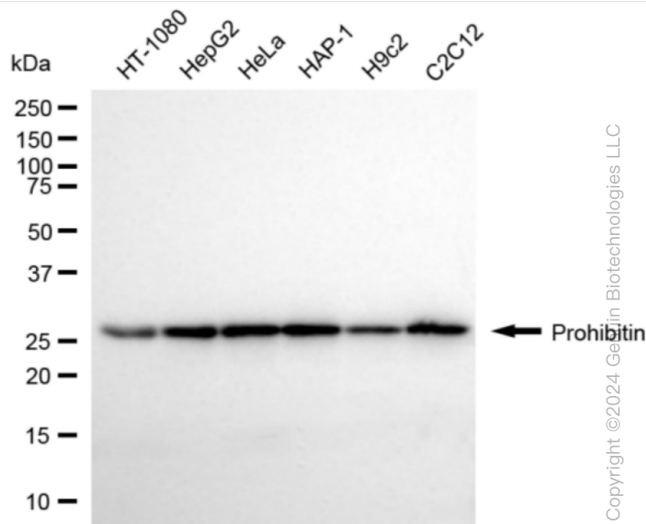
ABG1052

## Product Overview

|                             |                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                 | KD-Validated Anti-Prohibitin Rabbit Monoclonal Antibody                                                      |
| <b>Accession(Primary)</b>   | P35232                                                                                                       |
| <b>Host Species</b>         | Rabbit                                                                                                       |
| <b>Clonality</b>            | Monoclonal                                                                                                   |
| <b>Isotype</b>              | Rabbit IgG                                                                                                   |
| <b>Immunogen</b>            | A synthesized peptide derived from human Prohibitin                                                          |
| <b>Species Reactivity</b>   | Human, Mouse, Rat                                                                                            |
| <b>Calculated MW</b>        | Predicted, 30 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): 1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000 Immunocytochemistry (IC): 1:100-1:1,000 |

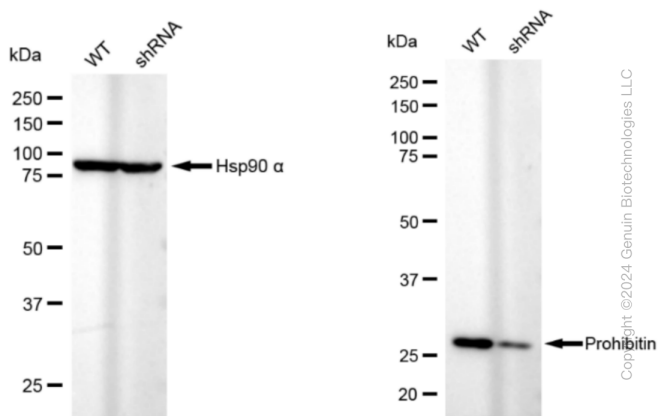
## Target information (P35232)

|                          |                                                                                                                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | PHB1                                                                                                                                                                                                                                                                                                 |
| <b>About Gene Symbol</b> | PHB1 (Prohibitin 1) is a protein kinase and signaling regulator involved in cell signaling and proliferation. It is an important research target in cancer, cell signaling, and therapeutic target research and is widely studied to elucidate cellular mechanisms and identify therapeutic targets. |



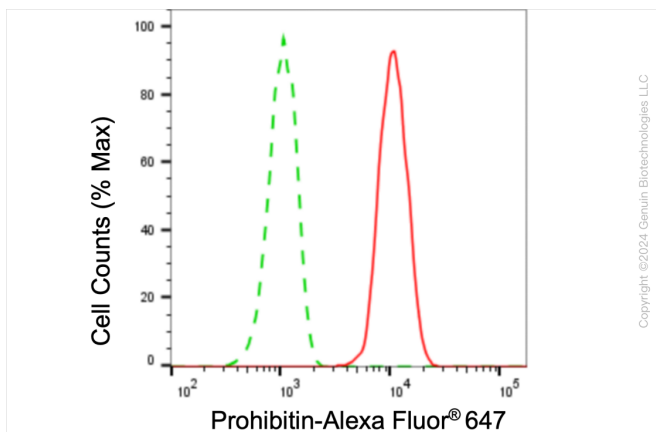
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Western blotting analysis using anti-prohibitin antibody (Cat#ABG1052). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-prohibitin antibody (Cat#ABG1052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



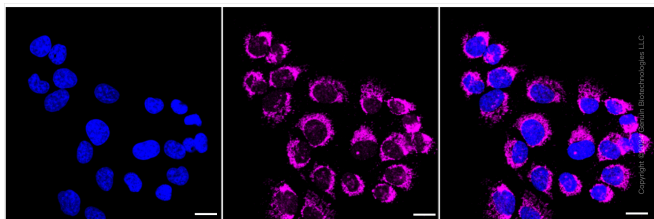
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Western blotting analysis using anti-prohibitin antibody (Cat#ABG1052). Prohibitin expression in wild type (WT) and prohibitin (PHB1) shRNA knockdown (KD) HeLa cells with 20  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-prohibitin antibody (Cat#ABG1052, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of prohibitin expression in HT-1080 cells using prohibitin antibody (Cat#ABG1052, 1:2,000). Green, isotype control; red, prohibitin.



Immunocytochemical staining of HT-1080 cells with prohibitin antibody (Cat#ABG1052, 1:1,000). Nuclei were stained blue with DAPI; Prohibitin 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.