

## Allgemeine Informationen

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| <b>Katalog-Nr.:</b><br>15663-1-AP                                       | <b>GenBank-Zugangsnummer:</b><br>BC008834                            | <b>Reinigungsmethode:</b><br>Antigen-Affinitätsreinigung |
| <b>Größe:</b><br>150ul , Konzentration: 1000 µg/ml von5252<br>Nanodrop; | <b>GeneID (NCBI):</b><br>Vollständiger Name:<br>PHD finger protein 1 | <b>Empfohlene Verdünnungen:</b><br>WB 1:1000-1:6000      |
| <b>Wirt:</b><br>Kaninchen   | <b>Berechnete Masse:</b><br>567 aa, 62 kDa                           |  |
| <b>Isotyp:</b><br>IgG   | <b>Beobachtete Masse:</b><br>62-70 kDa                               |  |
| <b>Immunogen Katalognummer:</b><br>AG8094                               |  |  |

## Anwendungen

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|---|--|
| <b>Geprüfte Anwendungen:</b><br>WB, ELISA           | <b>Positivkontrollen:</b><br>WB : C2C12-Zellen, Mausherzgewebe,<br>Mauslebergewebe, PC-12-Zellen |
| <b>In Publikationen genannte Anwendungen:</b><br>WB |  |
| <b>Getestete Reaktivität:</b><br>Human, Maus, Ratte |  |
| <b>Zitierte Arten:</b><br>Human, Maus               |  |

## Hintergrundinformationen

PHF1, also named as PHD finger protein 1, is a 567 amino acid protein, which contains 2 PHD-type zinc fingers and 1 Tudor domain and belongs to the Polycomblike family. Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. PHF1 involve in DNA damage response and is recruited at double-strand breaks (DSBs). PHF1 acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting the PRC2 complex: it is however unclear whether recruitment of the PRC2 complex to H3K36me3 leads to enhance or inhibit H3K27me3 methylation mediated by the PRC2 complex. According to some reports, PRC2 recruitment by PHF1 promotes H3K27me3 and subsequent gene silencing by inducing spreading of PRC2 and H3K27me3 into H3K36me3. According to another report, PHF1 recruits the PRC2 complex at double-strand breaks (DSBs) and inhibits the activity of PRC2. PHF1 regulates p53/TP53 stability and prolongs its turnover: PHF1 may act by specifically binding to a methylated form of p53/TP53.

## Bemerkenswerte Veröffentlichungen

| Verfasser    | Pubmed ID | Journal  | Anwendung |
|--------------|-----------|----------|-----------|
| Ka-Wing Fong | 36476474  | Mol Cell | WB        |
| Eric Conway  | 29628311  | Mol Cell | WB        |

## Lagerung

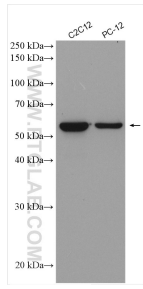
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:  
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## Ausgewählte Validierungsdaten



Various lysates were subjected to SDS PAGE followed by western blot with 15663-1-AP (PHF1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.