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# WHSC1L1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12757a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q9BZ95 |
| **Other Accession** | NP_060248.2, NP_075447.1 |
| **Reactivity** | Human, Mouse |
| **Predicted** | Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB12677 |
| **Calculated MW** | 161613 |
| **Antigen Region** | 188-217 |

## Additional Information

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| **Gene ID** | 54904 |
| **Other Names** | Histone-lysine N-methyltransferase NSD3, Nuclear SET domain-containing protein 3, Protein whistle, WHSC1-like 1 isoform 9 with methyltransferase activity to lysine, Wolf-Hirschhorn syndrome candidate 1-like protein 1, WHSC1-like protein 1, WHSC1L1, NSD3 |
| **Target/Specificity** | This WHSC1L1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-217 amino acids from the N-terminal region of human WHSC1L1. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | WHSC1L1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | NSD3 ( HGNC:12767) |

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| **Synonyms** | WHSC1L1 |
| **Function** | Histone methyltransferase. Preferentially dimethylates 'Lys- 4' and 'Lys-27' of histone H3 forming H3K4me2 and H3K27me2. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation, while 'Lys-27' is a mark for transcriptional repression. |
| **Cellular Location** | Nucleus. Chromosome. |
| **Tissue Location** | Highly expressed in brain, heart and skeletal muscle. Expressed at lower level in liver and lung |

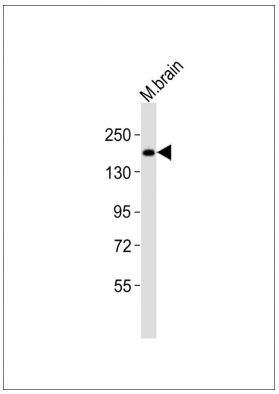
## Background

This gene is related to the Wolf-Hirschhorn syndrome candidate-1 gene and encodes a protein with PWWP (proline-tryptophan-tryptophan-proline) domains. The function of the protein has not been determined. Two alternatively spliced variants have been described.

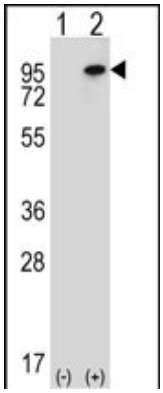
## References


Zhou, Z., et al. Biochem. Biophys. Res. Commun. 398(3):565-570(2010)
Kim, S.M., et al. Biochem. Biophys. Res. Commun. 345(1):318-323(2006)
Tonon, G., et al. Proc. Natl. Acad. Sci. U.S.A. 102(27):9625-9630(2005)
Rosati, R., et al. Blood 99(10):3857-3860(2002)
Stec, I., et al. Genomics 76 (1-3), 5-8 (2001) :


## Images




Anti-WHSC1L1 Antibody (N-term)at 1:2000 dilution + mouse brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 162 kDa Blocking/Dilution buffer: 5% NFDM/TBST.




Western blot analysis of WHSC1L1 (arrow) using rabbit polyclonal WHSC1L1 Antibody (N-term) (Cat. #AP12757a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the WHSC1L1 gene.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.