

# Recombinant Human papillomavirus type 18 Minor capsid protein L2(L2)

Catalog No: #AP71121

Package Size: #AP71121-1 20ug #AP71121-2 100ug #AP71121-3 1mg

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Product Name          | Recombinant Human papillomavirus type 18 Minor capsid protein L2(L2)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Host Species          | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purification          | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen Description | Expression Region:1-462aaSequence Info:Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Accession No.         | P06793                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Calculated MW         | 65.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tag Info              | N-terminal 6xHis-SUMO-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Target Sequence       | MVSHRAARRKRASVTDLYKTKQSGTCPPDVVPKVEGTTLADKILQWSSLGIFLGGLGIGTSGTGGRGTGYIP<br>LGGRSNTVVDVGPTRPVIEPVGPTDPSIVTLIEDSSVVTSGAPRPTFTGTSGFDITSAGTTTPAVLDITPSST<br>SVSISTTNFTNPAFSDPSIIEVPQTGEVAGNVFVGTPSTGTHGYEEIPLQTFASSGTGEEPISSSTPLPTVRRVAG<br>PRLYSRAYQQVSVANPEFLTRPSSLITYDNPAFEPVDTTLTFDPRSDVPDSDFMDIIRLHRPALTSRRGTVRFS<br>RLGQRATMFTRSGTQIGARVHFYHDISPIAPSPEYIELQPLVSATEDNDLFDIYADDMDPAVPVPSRSTTSFAFF<br>KYSPTISSASSYSNVTVPLTSSWDVPVYTGPDITLPSTTSVWPIVSPTAPASTQYIGIHGTHYYLWPLYFIPKK<br>RKRPVYFFADGFVAA |
| Formulation           | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                     |

## Background

Minor protein of the capsid that localizes along the inner surface of the virion, within the central cavities beneath the L1 pentamers. Plays a role in capsid stabilization through interaction with the major capsid protein L1. Once the virion enters the host cell, escorts the genomic DNA into the nucleus, in particular by promoting virion endosomal escape. It is involved, through its interaction with host dynein, in the intracellular microtubule-dependent transport of viral capsid toward the nucleus. Mediates the viral genome import into the nucleus through binding to host importins. Mediates the viral genome import into the nucleus through binding to host importins. Once within the nucleus, L2 localizes viral genomes to PML bodies in order to activate early gene expression for establishment of infection. Later on, promotes late gene expression by interacting with the viral E2 protein and by inhibiting its transcriptional activation functions. During virion assbly, encapsidates the genome by direct interaction with the viral DNA .

## References

Nucleotide sequence and comparative analysis of the human papillomavirus type 18 genome. Phylogeny of papillomaviruses and repeated structure of the E6 and E7 gene products.Cole S.T., Danos O.J. Mol. Biol. 193:599-608(1987)Research Topic:Others

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.