Recombinant HPV 16 L2 Protein, His-tagged

Cat. No. L2-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human papillomavirus type 16 major capsid protein L2 protein with 6×His tag at N-terminal was expressed in E. coli.
Species	HPV16
Source	E.coli
Description	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, L2 escorts the genomic DNA into the nucleus by promoting escape from the endosomal compartments and traffic through the host Golgi network. Plays a role 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. Once within the nucleus, L2 localizes viral genomes to host 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 assembly, encapsidates the genome by direct interaction with the viral DNA.
Purity	>95% , based on SDS-PAGE.
Applications	WB standard, antibody ELISA, immunogen, etc.
Notes	For research use only, not for use in diagnostic procedures.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Keep it at 4 centigrade if used within a month. For long term storage, split it into small aliquots and keep at -80 centigrade. Avoid repeated freezing and thawing. The product will be expired one year after receiving if stored properly. Non-hazardous. No MSDS required.
Storage Buffer	Each vial contains 100 μg of protein in PBS with 8M Urea.

GENE INFORMATION

Gene Name	L2 minor capsid protein L2 [Human papillomavirus type 16]
Official Symbol	L2
Synonyms	L2; minor capsid protein L2
Gene ID	1489081
Protein Refseq	NP_041331
UniProt ID	A0A166MB26

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