

Recombinant HPV18 E6 Protein, His-tagged

Cat. No. E6-1682H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HPV18 E6 protein (1-158aa) with N-His tag was expressed in E. coli.
Species	HPV18
Source	E.coli
ProteinLength	1-158 aa
Description	Plays a major role in the induction and maintenance of cellular transformation. Acts mainly as an oncoprotein by stimulating the destruction of many host cell key regulatory proteins. E6 associates with host UBE3A/E6-AP ubiquitin-protein ligase, and inactivates tumor suppressors TP53 and TP73 by targeting them to the 26S proteasome for degradation. In turn, DNA damage and chromosomal instabilities increase and lead to cell proliferation and cancer development. The complex E6/E6AP targets several other substrates to degradation via the proteasome including host DLG1 or NFX1, a repressor of human telomerase reverse transcriptase (hTERT). The resulting increased expression of hTERT prevents the shortening of telomere length leading to cell immortalization. Other cellular targets including BAK1, Fas-associated death domain-containing protein (FADD) and procaspase 8, are degraded by E6/E6AP causing inhibition of apoptosis. E6 also inhibits immune response by interacting with host IRF3 and TYK2. These interactions prevent IRF3 transcriptional activities and inhibit TYK2-mediated JAK-STAT activation by interferon alpha resulting in inhibition of the interferon signaling pathway.

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Tag	N-His
Molecular Mass	21 kDa
AA Sequence	MGSSHHHHHSSGLVPRGSHMARFEDPTRRPYKLPDLCTELNTSLQDIEITCVYCK TVLELTEVFEEFAFKDLFVVYRDSIPHAACHKCIDFYSRIRELRHYSDSVYGDITLEKLTN TGLYNLLIRCLRCQKPLNPAEKLRLHNEKRRFHNIAAGHYRGQCHSCCNRARQERLQ RRRETQV
Purity	> 95 % by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.1 mg/mL by BCA
Storage Buffer	Sterile PBS, pH7.4, 0.05% SKL

GENE INFORMATION

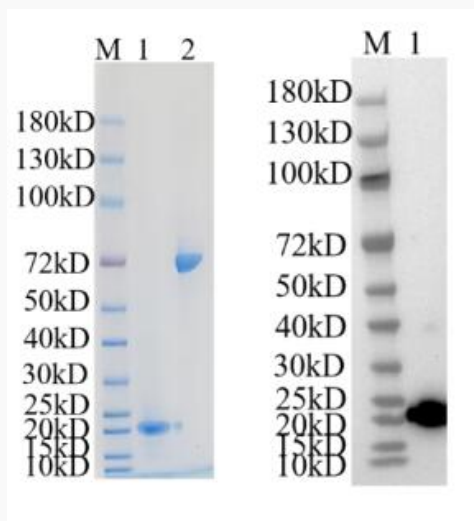
Gene Name	E6 E6 protein [human papillomavirus 18]
Official Symbol	E6
Synonyms	E6; E6 protein
Gene ID	1489088
Protein Refseq	NP_040310
UniProt ID	P06463

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Reducing 12% SDS-
PAGE (CBB stained)
and WB (Anti-His
Mouse Monoclonal
Antibody) analysis
profiles of purified
E6.



1. E6

2. BSA