



Human Papilloma Virus Type 16 E7 (HPV)

Catalog number

P3105-07A

Supplier

United States Biological

Human papillomavirus (HPV) is a diverse group of DNA-based viruses that infect skin and mucous membranes of humans and animals. Some HPV types are the causative agents of cervical cancer, with types 16 and 18 being particularly high-risk. The viral proteins E6 and E7 disrupt normal cell cycle regulation by interacting with p53 (a tumor-suppressing transcription factor) and Rb (retinoblastoma protein, also a tumor-suppressor). E7 particularly binds to Rb and histone deacetylases, resulting in activation of the E2F genes, which code for a family of transcription factors. The viral proteins E6 and E7 might be of particular interest in the development of therapeutic vaccines, since they are expressed early in viral infection.

Applications

Suitable for use in ELISA and Western Blot. Other applications have not been tested.

Recommended Dilutions

Optimal dilutions to be determined by the researcher.

Recommended Pair

Suitable for use as the capture or solid phase antibody.
Matched to P3105-16D, P3105-16F or P3105-25C as the detection or conjugate (label) antibody.

Hybridoma

Sp2/0 myeloma cells with spleen cells from Balb/c mice.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Human Papilloma Virus oncoprotein E7, type 16

Formulation

Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.

Purity

Purified by Protein G chromatography from ascites.

Specificity

Recognizes human Papilloma Virus Type16 (HPV16) E7 Protein. Crossreacts with HPV Type 18. Reacts with the monomer and dimer forms when tested in Western Blot.

Product Type



Mab

Isotype

IgG2a

Grade

Affinity Purified

Applications

E WB

Crossreactivity

Hu

Storage

-20°C