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Datasheet for ABIN2173795

anti-HPV16 E7 antibody (Middle Region)

1 Image

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Overview

Quantity:	100 µL
Target:	HPV16 E7 (HPV-16 E7)
Binding Specificity:	Middle Region
Reactivity:	Human Papillomavirus 16 (HPV-16)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HPV16 E7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from middle of HPV16-E7
Isotype:	IgG
Specificity:	This antibody may also detect HPV35-E7
Cross-Reactivity:	Human, Virus
Cross-Reactivity (Details):	HPV16
Purification:	Purified by Protein A.

Target Details

Target: HPV16 E7 (HPV-16 E7)

Abstract: [HPV-16 E7 Products](#)

Target Type: Viral Protein

Background: Synonyms: Protein E7, E7

Background: Plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. Stimulation of progression from G1 to S phase allows the virus to efficiently use the cellular DNA replicating machinery to achieve viral genome replication. E7 protein has both transforming and trans-activating activities. Induces the disassembly of the E2F1 transcription factor from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Interferes with host histone deacetylation mediated by HDAC1 and HDAC2, leading to transcription activation. Plays also a role in the inhibition of both antiviral and antiproliferative functions of host inteferon alpha.

Gene ID: 1489079

UniProt: [P03129](#)

Application Details

Application Notes: WB 1:100-1000
IHC-P 1:100-500
IF(IHC-P) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

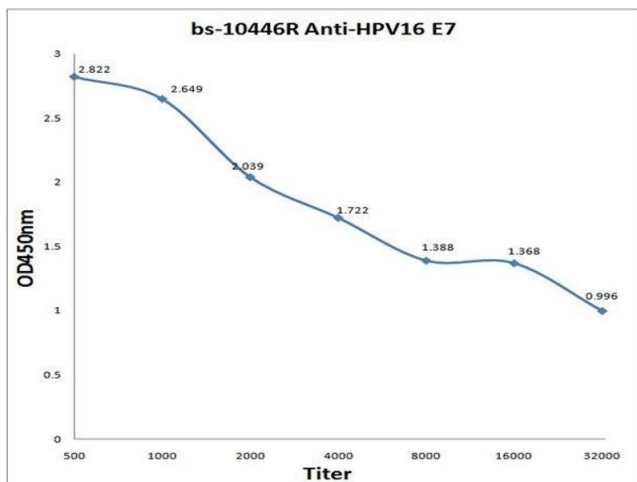
Expiry Date: 12 months

Publications

Product cited in: Liu, Murray-Stewart, Casero, Kagiampakis, Jin, Zhang, Wang, Che, Tong, Ke, Jiang, Wang, Wan: "Targeting hexokinase 2 inhibition promotes radiosensitization in HPV16 E7-induced cervical cancer and suppresses tumor growth." in: **International journal of oncology**, Vol. 50, Issue 6, pp. 2011-2023, (2017) ([PubMed](#)).

Shao, Sun, Wang, Chung, Du, Wang, Qiu, Wang, Wu: "HPV16 E6/E7 upregulates HIF-2α and VEGF by inhibiting LKB1 in lung cancer cells." in: **Tumour biology**, Vol. 39, Issue 7, pp. 1010428317717140, (2017) ([PubMed](#)).

Images



ELISA

Image 1. Antigen: 0.2ug/100ul Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat Anti-Rabbit IgG -HRP) at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm.