bs-10446R **[Primary Antibody]**

HPV16 E7 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: HPV16 E7

Immunogen: KLH conjugated synthetic peptide derived from human HPV16 E7: 21-98/98.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

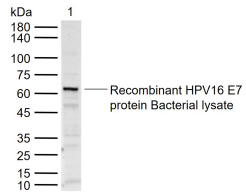
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

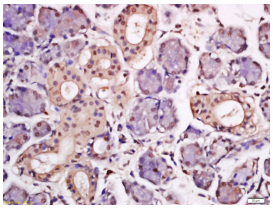
Reactivity: Human, HPV16

Predicted MW.: 11 kDa

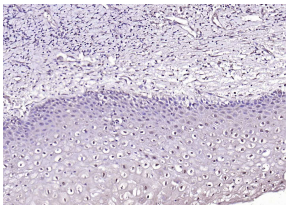
VALIDATION IMAGES



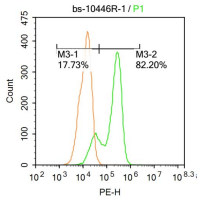
Sample: Lane 1: Recombinant HPV16 E7 protein Bacterial lysate, DsbC & His(bs-49101L) Primary: Anti-HPV16 E7 (bs-10446R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 11 kDa Observed band size: 61 kDa



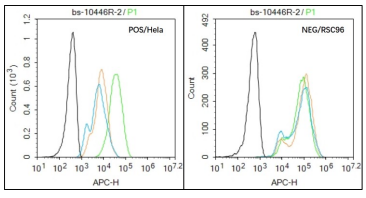
Tissue/cell: Human parotid tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-HPV16 E7 Polyclonal Antibody, Unconjugated(bs-10446R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HPV16 E7) Polyclonal Antibody, Unconjugated (bs-10446R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-HPV16 E7 antibody (bs-10446R) Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1μg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Black line : Positive blank control (Hela); Negative blank control (RSC96) Green line : Primary Antibody (Rabbit Anti-HPV16 E7 antibody (bs-10446)) Orange line: Isotype Control Antibody (Rabbit IgG) . Blue line : Secondary Antibody (Goat anti-rabbit IgG-AF647) Hela（Positive）and RSC96（Negative control）cells (black) were fixed with 4% PFA for 10min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with HPV16 E7 Antibody(bs-10446R)at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%

BSA in PBS, followed by secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

SELECTED CITATIONS

- **[IF=6.852]** Yang JH et al. HPV16 E6/E7 upregulate hTERC mRNA and gene amplification levels by relieving the effect of LKB1 on Sp1 phosphorylation in lung cancer cells:. Ther Adv Med Oncol.2020 May 12;12:1758835920917562. WB ;Human. 32499837
- **[IF=6]** Zhenzhen Xie. et al. A novel Zn2+ probe for fluorescent monitoring of drug and E6/E7 protein interaction in living cells. ANAL CHIM ACTA. 2025 Aug;1363:344202 WB ;Human. 40480729
- **[IF=6.126]** Paola Matarrese. et al. Physical Interaction between HPV16E7 and the Actin-Binding Protein Gelsolin Regulates Epithelial-Mesenchymal Transition via HIPPO-YAP Axis. Cancers. 2021 Jan;13(2):353 FCM ;Human. 33477952
- **[IF=4.5]** Zongfeng Hu. et al. The anti-tumor efficacy of a recombinant oncolytic herpes simplex virus mediated CRISPR/Cas9 delivery targeting in HPV16-positive cervical cancer. ANTIVIR RES. 2024 Nov;:106035 WB ;Human. 39536909
- **[IF=3.65]** Shao, Jian-Shuang, et al. "HPV16 E6/E7 upregulates HIF-2α and VEGF by inhibiting LKB1 in lung cancer cells." Tumor Biology 39.7 (2017): 1010428317717137. WB ;="Human". 28720067