

## Rabbit Anti-HPV16 E7 antibody

SL10446R

**Product Name** HPV16 E7

**Chinese Name** 人类乳头状瘤病毒 16-E7 抗体

**Alias** E7; HPV16 E7 protein; Human Papilloma Virus; Human papillomavirus type 16 E7; Human papilloma protein E7; Human Papillomavirus 16 (E7); HPV16 E7; E7 protein (HPV16); VE7\_HP16; HPV16 E7

**Research Area** Tumour

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human

**Applications** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test (Paraffin antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 11kDa

**Cellular localization** The nucleus

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human HPV16 E7: 21-98/98

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** Human1M TBS(pH7.4) with 1% BSA, Human3% Proclin300 and 50% Glycerol.

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

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic.

**PubMed** [PubMed](#)

**Product Detail** Human papilloma viruses (HPVs) can be classified as either high risk or low risk according to their ability to cause cancer. HPV16 and HPV18 are the most common of the high risk group while HPV6 and HPV11 are the most common of the low risk group.

types. Approximately 90% of cervical cancers contain HPV DNA of the high risk types. Mutation that the E6 and E7 genes of the high risk HPVs are necessary and sufficient for HPV transforming interactions of the E6 and E7 proteins with p53 and pRB, respectively, correlate with HPV high classifications. The high risk HPV E7 proteins bind to pRB with a higher affinity than do the low only the high risk HPV E6 proteins form detectable complexes with p53 in vitro.

**Function:**

E7 protein has both transforming and trans-activating activities. Disrupts the function of host ret RB1/pRb, which is a key regulator of the cell cycle. Induces the disassembly of the E2F1 transcrip with subsequent transcriptional activation of E2F1-regulated S-phase genes. Inactivation of the a the cell cycle is critical for cellular transformation, uncontrolled cellular growth and proliferation infection. Stimulation of progression from G1 to S phase allows the virus to efficiently use the ce machinery to achieve viral genome replication. Interferes with histone deacetylation mediated by leading to activation of transcription.

**Subunit:**

Homodimer. Homooligomer. Interaction with host RB1 induces the aberrant dissociation of RB1 disrupting RB1's activity. Binds to CHD3 through its zinc-finger domain. Forms a complex with thereby altering the action of host histone deacetylation. A similar complex involving E7, CHD3 form. Interacts with E2; this interaction inhibits E7 oncogenic activity.

**Similarity:**

Belongs to the papillomaviridae E7 protein family.

**SWISS:**

P03129

**Gene ID:**

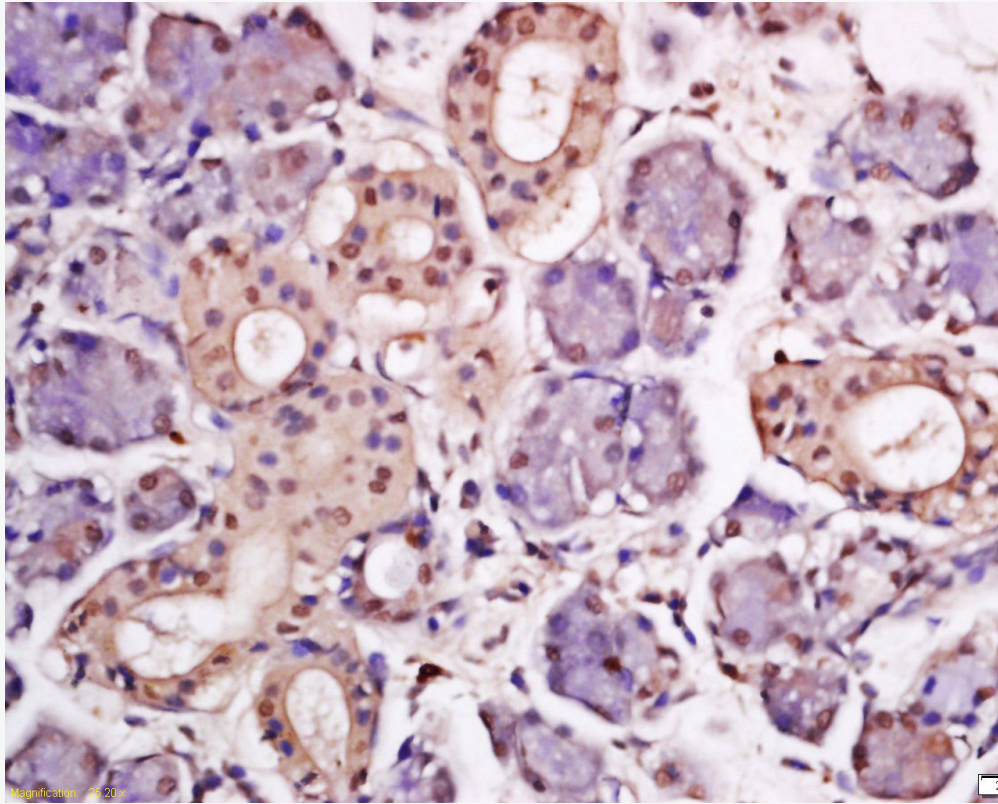
1489079

**Database links:**

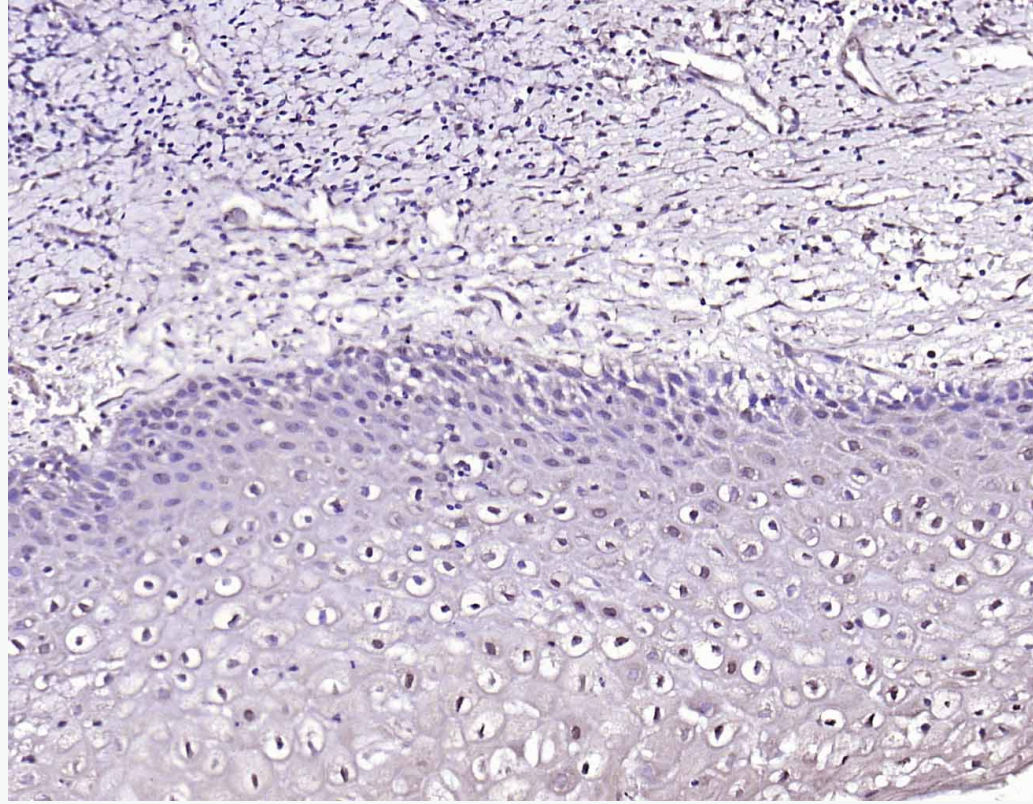
[Entrez Gene: 1489079](#) HPV16

[SwissProt: P03129](#) HPV16

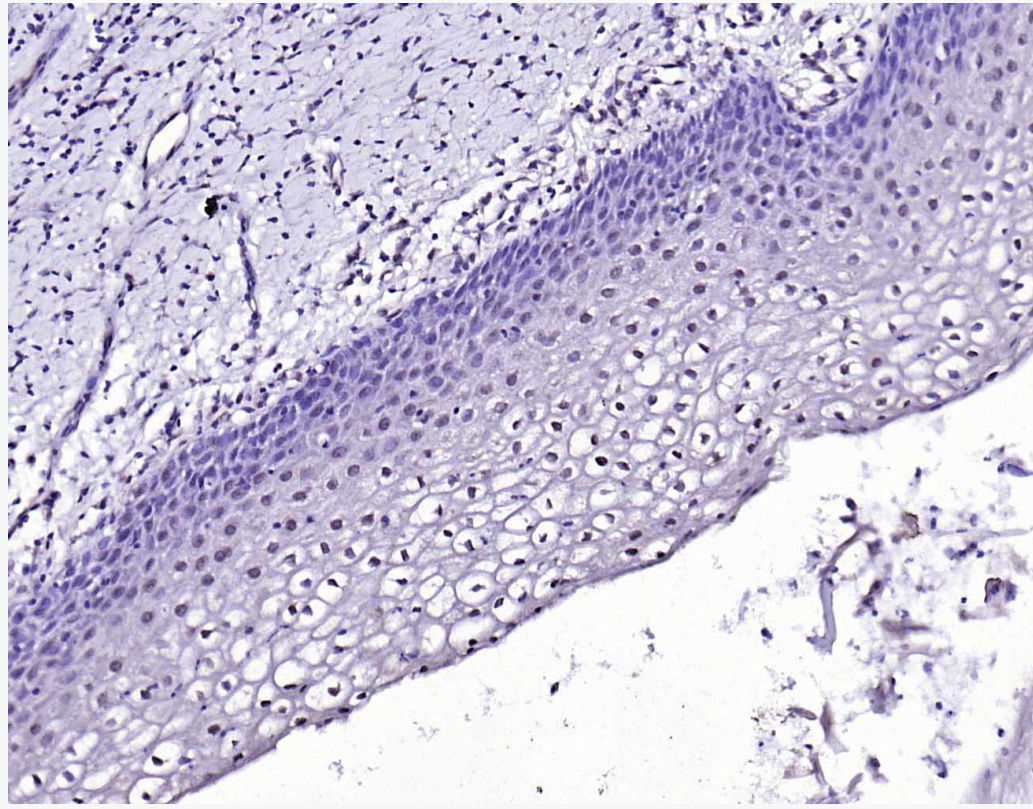
**Product  
Picture**



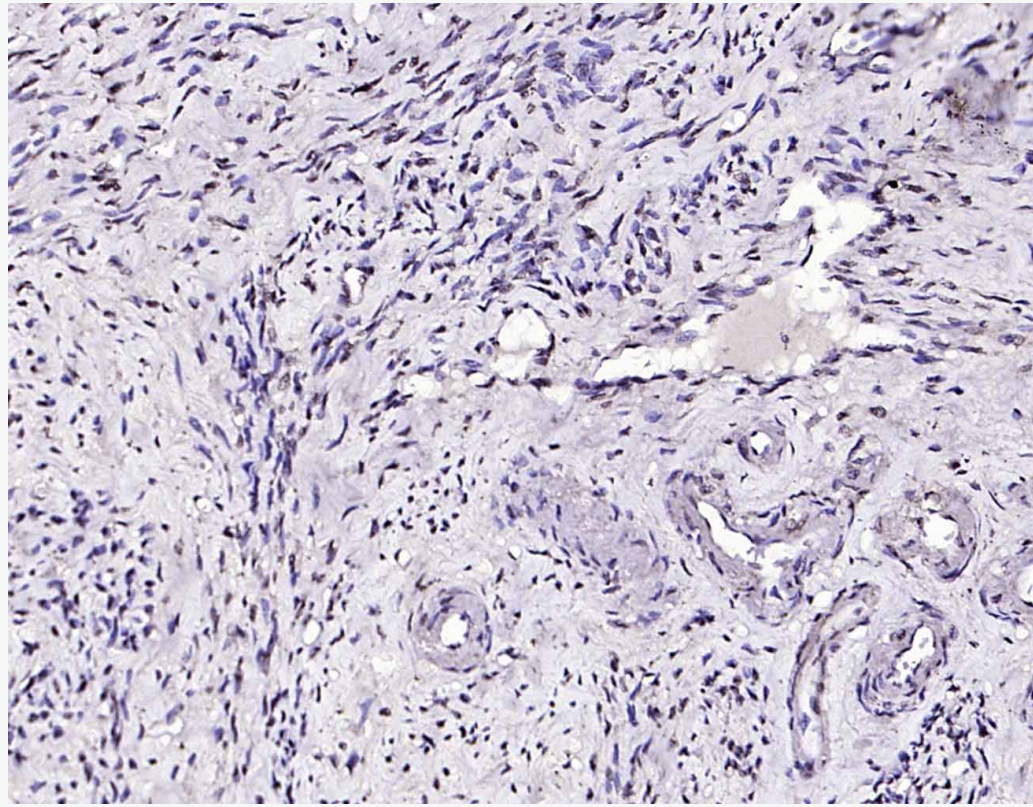
Tissue/cell: Human parotid tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( Human1M, pH 6.0 ), Boiling bathing for 15min; Block endo  
3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 2  
Incubation: Anti-HPV16 E7 Polyclonal Antibody, Unconjugated(SL10446R) 1:200, overnight  
conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



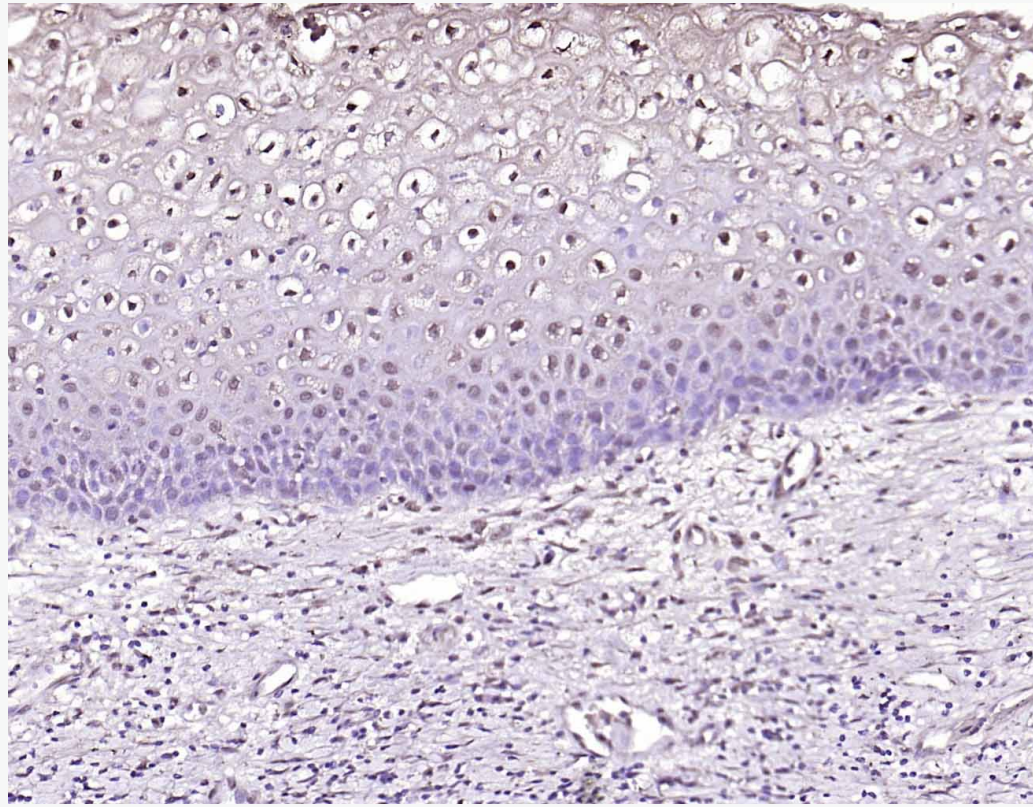
Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30min; Block non-specific binding by citrate buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HPV16 E7) Polyclonal antibody (SL10446R) at 1:2000 overnight at 4°C, followed by operating according to SP instructions and DAB staining.



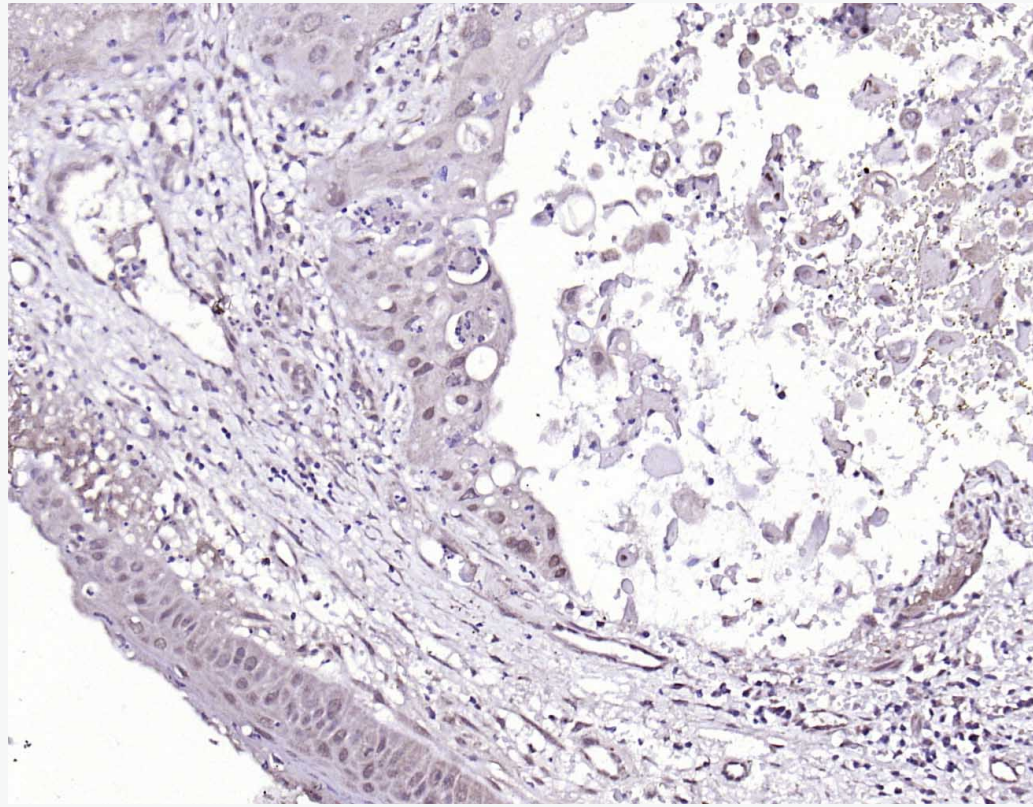
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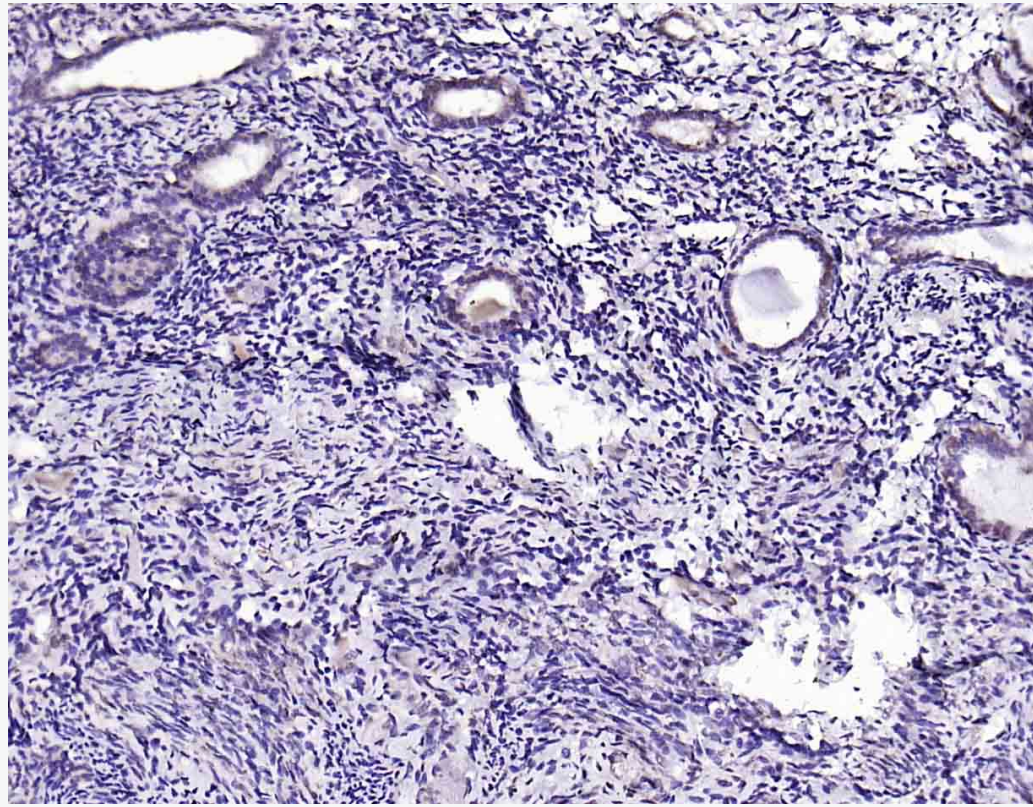
Paraformaldehyde-fixed, paraffin embedded (Human uterus); Antigen retrieval by boiling in s (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; BL (goat serum) at 37°C for 30min; Antibody incubation with (HPV16 E7) Polyclonal Antibody, U (SL10446R) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (s instructions and DAB staining.



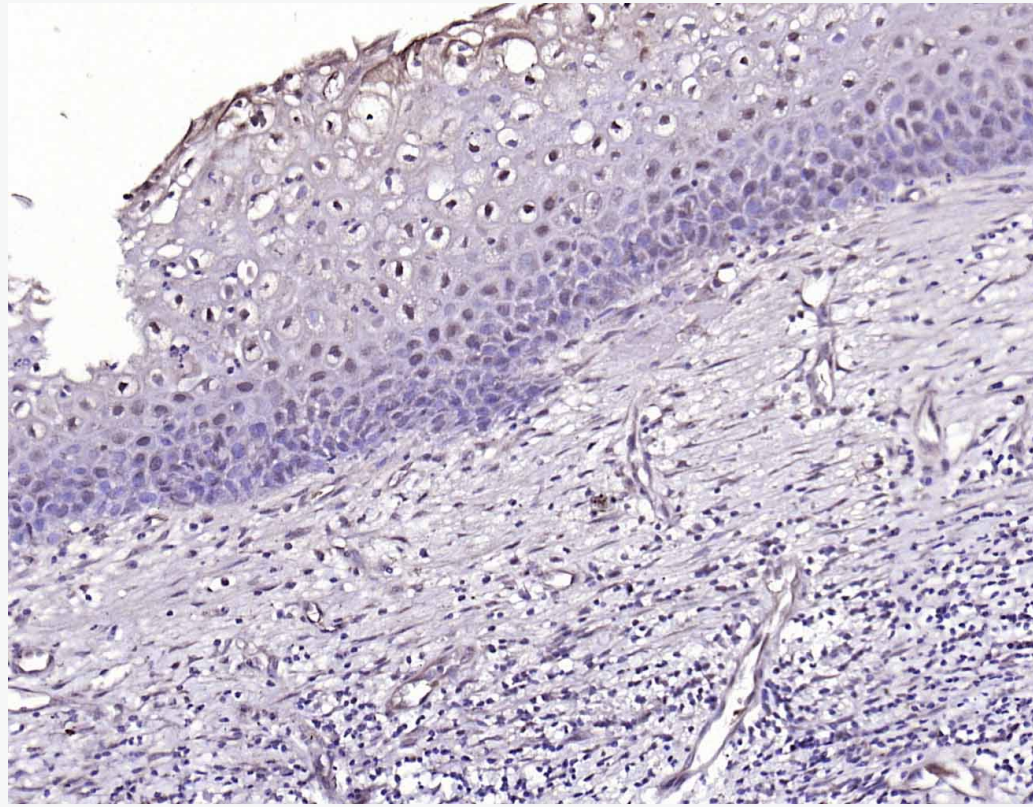
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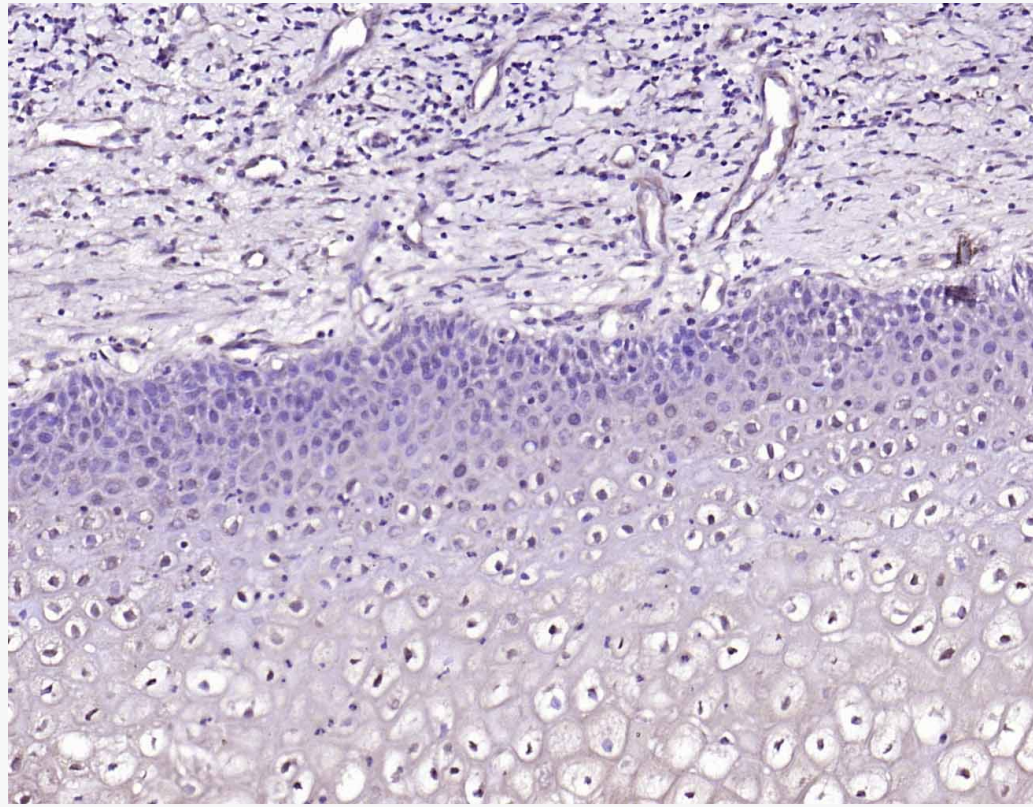
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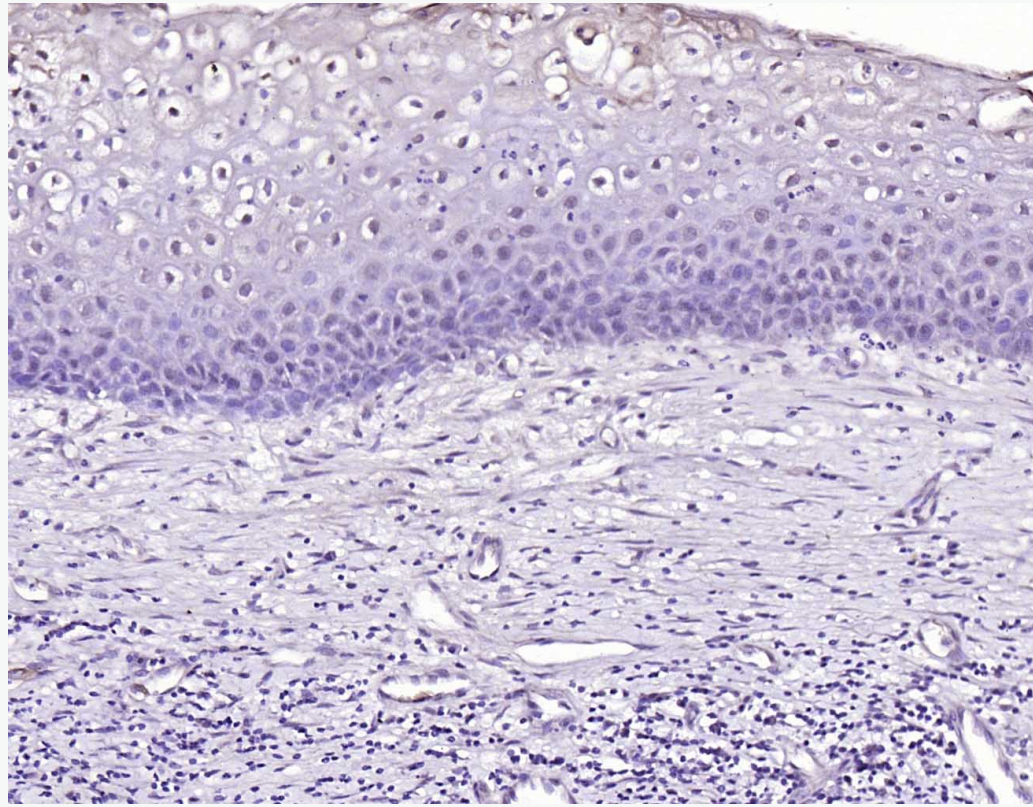
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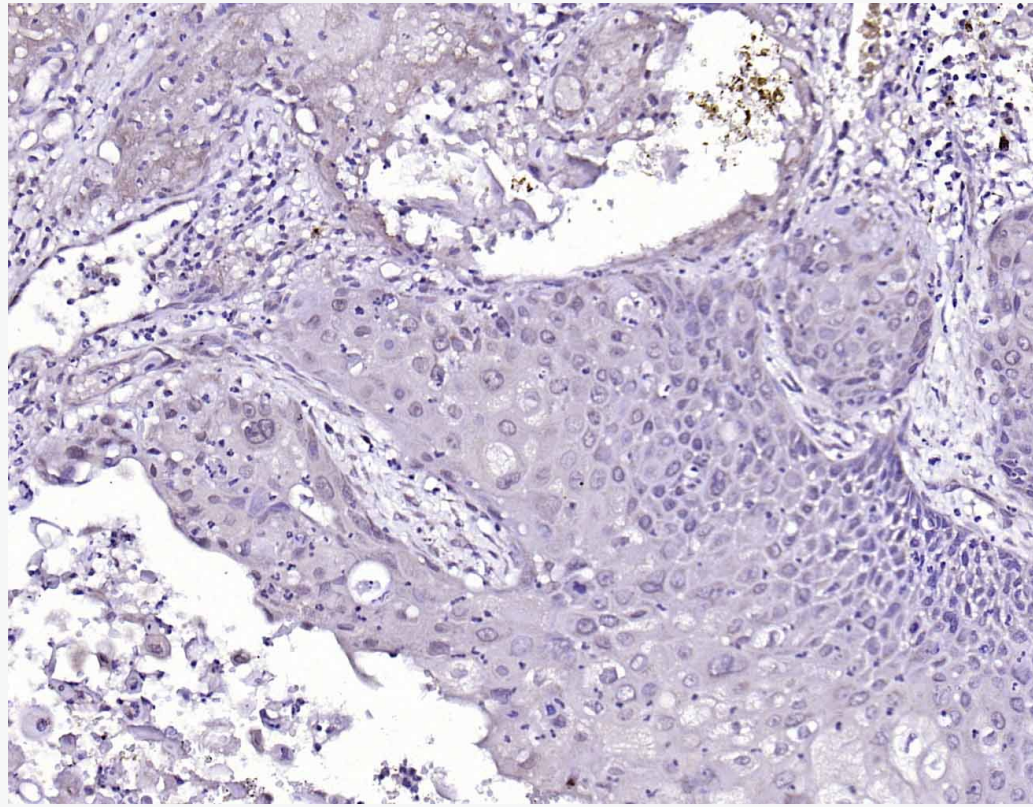
Paraformaldehyde-fixed, paraffin embedded (human cervical carcinoma); Antigen retrieval by citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 10min; Block non-specific binding by 3% normal goat serum in citrate buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HPV16 E7) Polyclonal antibody (SL10446R-2) at 1:2000 overnight at 4°C, followed by operating according to SL10446R-2 (sp-0023) instructions and DAB staining.



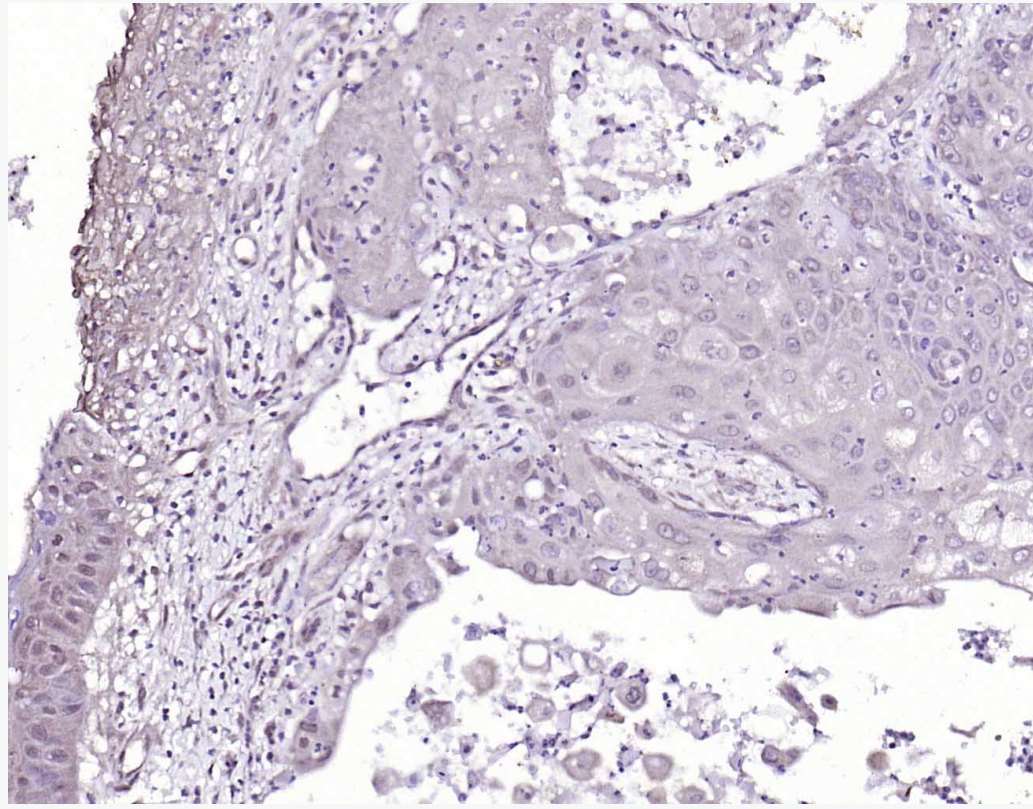
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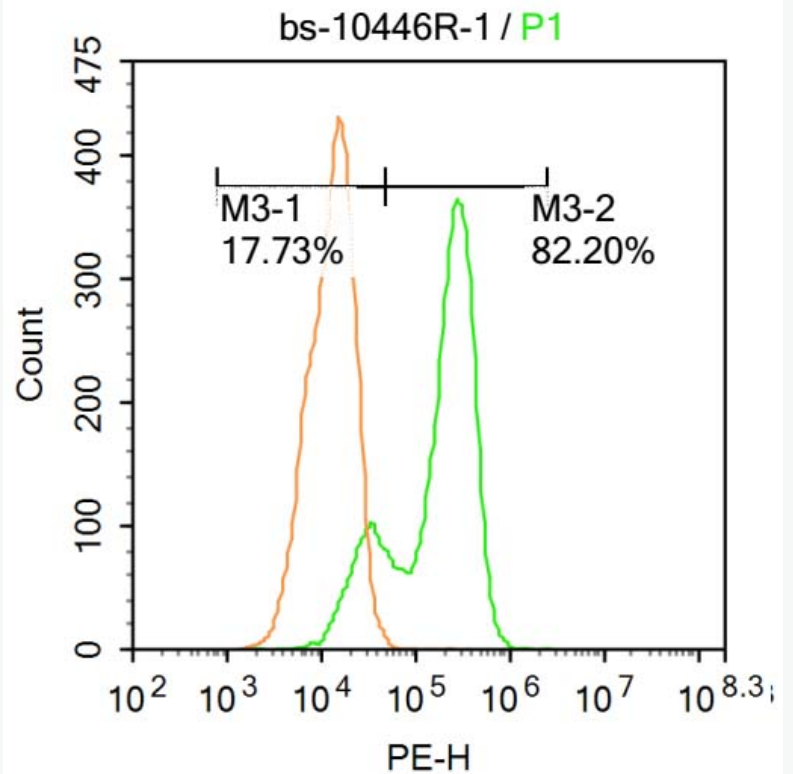
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Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-HPV16 E7 antibody (SL10446R)

Dilution: 1 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

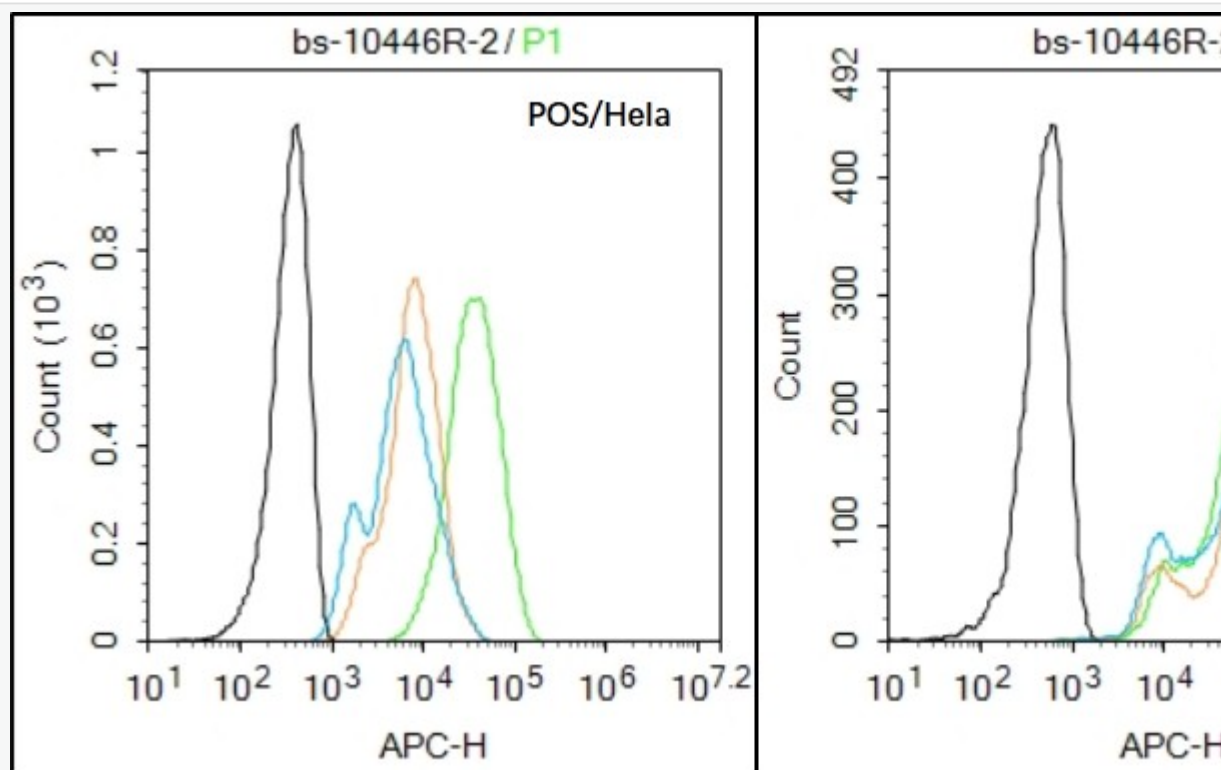
Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 $\mu$ g /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 9  
 for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-prot  
 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperat

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 (SL10446) )

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 1

temperature, permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in

buffer for 30 min at room temperature. Cells were then stained with HPV16 E7 Antibody(SL10

in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA

secondary antibody(blue) incubation for 40 min at room temperature. Acquisitions of 20,000 ev



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Cells stained with primary antibody (green), and isotype control (orange).