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36-3796: Anti-HPV16 E1/E4 (Human Papilloma Virus 16) Monoclonal Antibody(Clone: HPV16 E1/E4)

Clonality :	Monoclonal
Clone Name :	HPV16 E1/E4
Application :	IHC
Alternative Name :	HPV-16; HPV-16 capsid; HPV16 L1; HPV16 major capsid protein L1; Human papillomavirus type 16 L1; Human papillomavirus type 16 major capsid protein L1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant human HPV16 E1/E4 fragment (aa 36-41).

Description

The human papilloma virus (HPV) family of DNA tumor viruses includes HPV16, a 'high-risk' sexually-transmitted HPV that can lead to cervical, anal, vulvar, head, neck, and penile cancer. The HPV16E1/E4 protein is expressed abundantly in cells supporting viral DNA amplification, but is lost during malignant progression. HPV16E1/E4 causes G2 cell cycle arrest by associating with and preventing the nuclear entry of Cdk1/cyclin B1 complexes. HPV16E1/E4 also interacts with cyclin A and Cdk2 during the G2 phase of the cell cycle, and this association may increase the efficiency with which HPV16E1/E4 is able to prevent mitotic entry. HPV16E1/E4 also associates with keratin intermediate filaments and causes the network to collapse.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

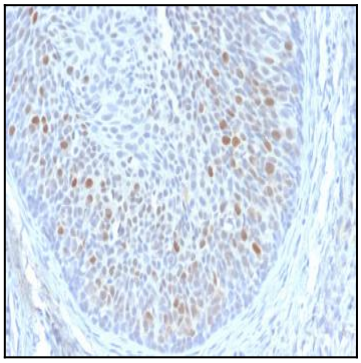

Fig. 1: Formalin-fixed, paraffin-embedded human Cervix stained with HPV-18 Mouse Monoclonal Antibody (HPV16 E1/E4).

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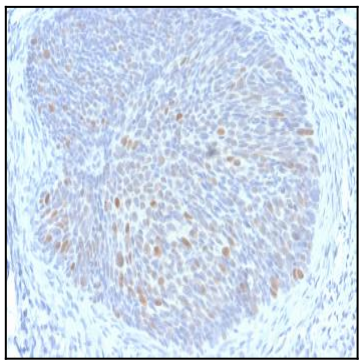

Fig. 2: Formalin-fixed, paraffin-embedded human Cervix stained with HPV-18 Mouse Monoclonal Antibody (HPV16 E1/E4).

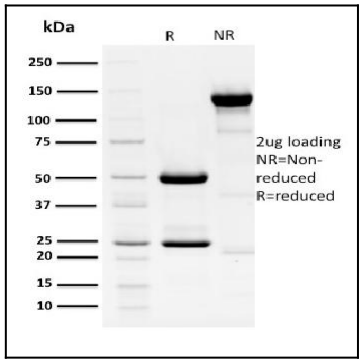

Fig. 3: SDS-PAGE Analysis Purified HPV-18 Mouse Monoclonal Antibody (HPV16 E1/E4). Confirmation of Purity and Integrity of Antibody.