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[Marker Primary Antibody]

Rabbit Anti-HPV18 E6 protein/AF647 Conjugated antibody

Catalog Number: SL0991R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HPV18 E6 protein/AF647
Immunogen:	Synthetic peptide from the HPV18 E6 protein conjugated to KLH
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:HPV18)
Background:	background: Human papilloma viruses (HPVs) can be classified as either high risk or low risk according to their association with cancer. HPV16 and HPV18 are the most common of the high risk group while HPV6 and HPV11 are among the low risk types. Approximately 90% of cervical cancers contain HPV DNA of the high risk types. Mutational analysis have shown that the E6 and E7 genes of the high risk HPVs are necessary and sufficient for HPV transforming function. The specific interactions of the E6 and E7 proteins with p53 and pRB, respectively, correlate with HPV high and low risk classifications. The high risk HPV E7 proteins bind to pRB with a higher affinity than do the low risk HPV proteins, and only the high risk HPV E6 proteins form detectable complexes with p53 in vitro. **Function:** Transcriptional transactivator. Binds double stranded DNA (By similarity). Has transforming activity. Inactivates, with E6-AP ubiquitin-protein ligase, the human p53/TP53 tumor suppressor protein by targeting it to degradation. Binds and targets human MUPP1/MPDZ protein to degradation.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Those two functions presumably contribute to transforming activity. Interaction with human FBLN1 protein also seems to be linked to cell transformation. **Subunit:** Forms a complex with E6-AP ubiquitin-protein ligase which interacts with human P53. Binds to human FBLN1, MAGI3 and MPDZ. **Subcellular Location:** Host nucleus matrix (By similarity). **Similarity:** Belongs to the papillomaviridae E6 protein family. **Database links:** **Entrez Gene:** 1489088 HPV18 E6 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Human papillomavirus 18 (HPV18-E6) is the main virus type causing cervical cancer in women (including human papillomavirus 16)