



## **Rabbit anti HPV (IN) (Human Papillomavirus), E7 protein Polyclonal Antibody**

**Alternative Name(s):** Human Papillomavirus 116; E7 protein

### **Order Information**

- **Description:** HPV (IN) (Human Papillomavirus), E7 protein
- **Catalogue:** 620-920
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), ELISA
- **Reactivity:** hu, Ms, Rt,

### **ANTIGEN PREPARATION**

A synthetic peptide VQSTHVDIRTLEDLLMGTLGVC SQP corresponding to the internal sequence of human papillomavirus type 16.

### **BACKGROUND**

The strain of Human papilloma virus 16 (HPV16 or E7 protein) is directly linked to cervical cancer and can be diagnosed with a colposcopy and biopsy. Human papilloma virus is one of the most common causes of sexually transmitted infection in the world. E7 protein has transforming and trans-activating activities that are known to disrupt the function of host retinoblastoma protein (Rb1). E6 is a transcriptional trans-activator with transforming activities targeting p53 tumor suppressor. HPV16, in comparison to HPV types 6 and 11, is more often associated with malignant genital cancers in humans. This antibody was raised in rabbit against protein E7 of human papillomavirus type 16 (HPV16) which is mainly used for research on sexually-transmitted diseases and gynecology tumor.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~40 kDa of HPV16/E7-GST recombinant protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 43.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS

**MW: kDa**

**100 -**

**70 -**

**50 -**

**37 -**

**25 -**



Western Blot: The recombinant protein E7-GST was separated in 10% SDS-PAGE, transferred onto Nitrocellulose membrane, and immunoblotted by Rabbit anti-HPV16/E7(IN)(Cat#620-920) at 1:500. An immunoreactive band is observed at molecular weight ~50 kDa corresponding to the fusion protein size.

## REFERENCES

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