**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 has 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.

**REFERENCES**


**SOURCE**

HPV16 E6/E8 (C1P5) is a mouse monoclonal antibody raised against purified HPV16 E6-β-galactosidase fusion protein.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

HPV16 E6/E8 (C1P5) is available conjugated to agarose (sc-460 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-460 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-460 PE), fluorescein (sc-460 FITC), Alexa Fluor® 488 (sc-460 AF488), Alexa Fluor® 546 (sc-460 AF546), Alexa Fluor® 594 (sc-460 AF594) or Alexa Fluor® 647 (sc-460 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-460 AF680) or Alexa Fluor® 790 (sc-460 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

HPV16 E6/E8 (C1P5) is recommended for detection of the early protein E6 of Human Papillomavirus (HPV) types 16 and 18 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of HPV16 E6/E8: 16/17 kDa.

Positive Controls: Ca Ski whole cell lysate: sc-364360 or HeLa whole cell lysate: sc-2200.

**STORAGE**

Store at 4°C, **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

Western blot analysis of HPV18 E6 expression in RKO E6 (A) and Ca Ski (B) whole cell lysates immunoprecipitated with HPV16 E6/E8 (C1P5): sc-460 and detected with HPV16 E6 (C-17): sc-1586.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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