



## BPV (5E388): sc-70438

### BACKGROUND

Bovine papillomavirus (BPV) are small non-enveloped viruses with an icosahedral shape and a circular double-stranded DNA genome. The early region of the BPV genome encodes nonstructural proteins E1 to E8, while the late region encodes for the structural proteins L1 and L2. The E2 protein is the master regulator of the papillomavirus transcription and replication, the activity of which is regulated through sequence-specific DNA binding. There are six types of BPV that each infect a different human area. The six types are divided into two broad subgroups, A and B. Subgroup B viruses cause warts upon infection that have a cauliflower-like appearance and are most common on the head, neck and shoulders in humans. Subgroup A viruses cause cutaneous fibropapillomas that have a nodular appearance.

### REFERENCES

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4. Breiding, D.E., Gossel, M.J. and Androphy, E.J. 1996. Genetic analysis of the bovine papillomavirus E2 transcriptional activation domain. *Virology* 221: 34-43.
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7. Kurg, R., Langel, U. and Ustav, M. 2000. Inhibition of the bovine papillomavirus E2 protein activity by peptide nucleic acid. *Virus Res.* 66: 39-50.
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### 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

### SOURCE

BPV (5E388) is a mouse monoclonal antibody raised against BPV.

### PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### APPLICATIONS

BPV (5E388) is recommended for detection of BPV by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).