

## Mouse mAb to BPV E2 ( clone 5H4)

Catalogue #	A1-154-100
Immunogen:	BPV type 1 E2
Immunogen Description:	Recombinant full length BPV type 1 E2 protein purified from <i>E. coli</i>
Uniprot ID:	P03122
Clonality:	Mouse monoclonal
Clone:	5H4
Class:	IgG
Reactivity:	Bovine, BPV type 1 E2 protein, mapped to 310-410
Application:	ELISA, IF
Protocol:	<p><b>This is a conformational antibody and does not work in Western immunoblotting analysis or in other denaturative conditions.</b></p> <p>Induces DNA/protein complex supershift in mobility shift assay. Monoclonal antibody working titer has to be established practically for each particular antigen and assay format.</p>
ELISA:	0,1-0,2 µg/ml
IF:	0,33-20 µg/ml
Purification:	Protein A purification
Buffer:	PBS with 50% glycerol
Related Products:	<p>9 different monoclonal antibodies to BPV type 1 E2 protein. For more information and ordering see full list:</p> <p><a href="http://www.icosagen.com/products/?antibodies">www.icosagen.com/products/?antibodies</a></p>
Shipping:	This product is shipped in non-frozen liquid form in ambient conditions
Storage:	Store at -20 or -70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple

freeze-thaw cycles as product degradation may result

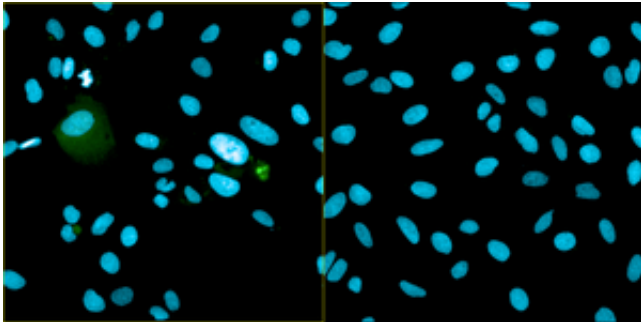
**Background:** E2 protein plays a central role in the viral life cycle as it regulates both transcription and replication of the viral genome. Can either activate or repress transcription. The E1-E2 protein complex binds to the origin of DNA replication activating replication of the BPV

**References**

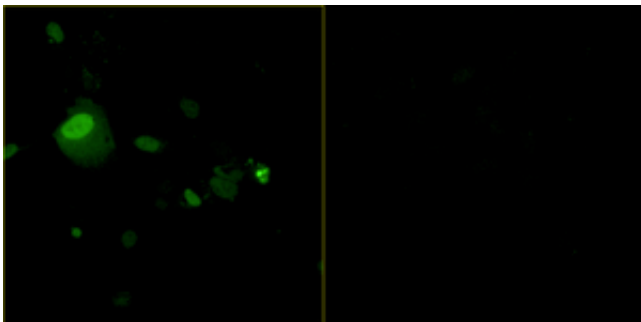
**Kurg R, Parik J, Juronen E, Sedman T, Abroi A, Liiv I, Langel Ü, and Ustav M.**  
1999. Effect of bovine papillomavirus E2 protein-specific monoclonal antibodies on papillomavirus DNA replication, J Virol. 73: 4670-77.

**Kurg R, Tekkel H, Abroi A, and Ustav M.**  
2006. Characterization of the functional activities of the bovine papillomavirus type 1 E2 protein single-chain heterodimers, J Virol. 80(22): 11218-25

**A.**



**B.**



**Figure 1. Immunofluorescence testing of anti-BPV E2 monoclonal antibody (5H4).** Assay was carried out with U2OS cells expressing BPV E2 protein. Antibody concentration of 0.33 µg/ml was used. Nuclei were stained by DAPI. Fluorescence was measured at (A) 460 nm and 488 nm wavelengths or (B) 488 nm only.