

Mouse mAb to BPV E2 (clone 3H5)

Catalogue #	A1-153-100
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:	3H5
Class:	IgG
Reactivity:	Bovine, BPV type 1 E2 protein, mapped to amino acids 310-410
Application:	ELISA, IF
Protocol:	<p><i>This is a conformational antibody and does not work in WB or other denaturative conditions.</i></p> <p>This antibody blocks E1-E2 dependent replication origin complex formation, dissociates protein/DNA complex and therefore inhibits viral replication.</p> <p>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:	0,5-20 µg/ml
Purification:	Protein A purification
Buffer:	PBS with 50% glycerol
Related Products:	9 different monoclonal antibodies to BPV type 1 E2 protein. For more information and ordering see full list: www.icosagen.com/products/?antibodies
Shipping:	This product is shipped in non-frozen liquid form

in ambient conditions

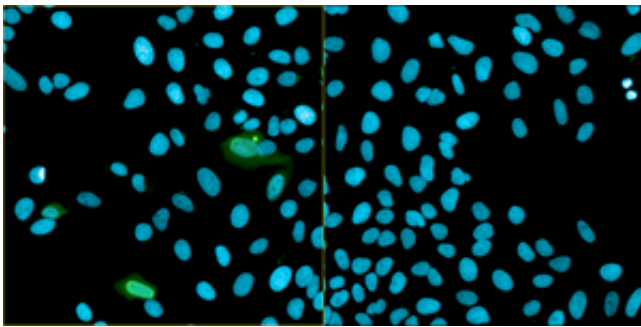
Storage: Store at – 20 or -70 °C upon receipt. Divide antibody into aliquots prior usage. Avoid multiple freeze-thaw cycles as product degradation may result.

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.

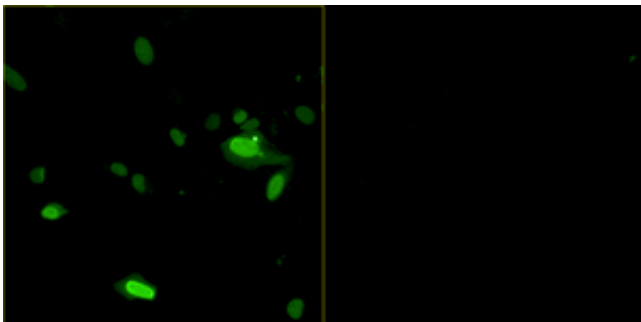


Figure 1. Immunofluorescence testing of anti-BPV E2 monoclonal antibody (3H5). Assay was carried out with U2OS cells expressing BPV E2 protein. Antibody concentration of 0.5 $\mu\text{g/ml}$ was used. Nuclei were stained by DAPI. Fluorescence was measured at (A) 460 nm and 488 nm wavelengths or (B) 488 nm only.