



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human Papilloma Virus Type 16 (HPV-16) L1 Late Protein

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-02081

Target Species
Viral

Isotype
IgG2a

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein A

Immunogen: Amino acids 198-531 of HPV 16-L1 fused to beta-galactosidase.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN_3)

Approx. Protein Concentration: IgG concentration 1.0 mg/ml

Specificity

This product reacts with a late protein of HPV type 16. Can be used to detect HPV in human biopsies and smears. HPV-6 and -11 positive biopsies gave negative results.

Species Cross Reactivity

Reacts with: Horse, Cat

N.B. Antibody reactivity and working conditions may vary between species.

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of shipment

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunohistology - Frozen			•	
Immunohistology – Paraffin (1)	•			
Immunohistology - Resin			•	
Western Blotting (2)	•			
Immunofluorescence	•			
Immunoprecipitation	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

(1) Paraffin embedded, acetone or paraformaldehyde fixed sections are suitable.

(2) Detects a 56 kDa band corresponding to the L1 protein. It also detects a 41 kDa protein in uninfected mammalian cells. This unwanted specificity is absent in IPPT/IHC.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Reference

- McLean, C.S. et al. (1990) Production and characterisation of a monoclonal antibody to human papillomavirus type 16 using recombinant vaccinia virus. J Clin Pathol. 43: 488-92.
- Carter, J.J. et al. (2003) Identification of a human papillomavirus type 16-specific epitope on the C-terminal arm of the major capsid protein L1. J Virol. 77: 11625-32.
- Zhou, J. et al. (1990) Increased antibody responses to human papillomavirus type 16 L1 protein expressed by recombinant vaccinia virus lacking serine protease inhibitor genes. J Gen Virol. 71 : 2185-90.
- Kelsall, S.R. and Kulski, J.K. (1995) Expression of the major capsid protein of human papillomavirus type 16 in Escherichia coli. J Virol Methods. 53: 75-90.
- Hanslip, S.J. et al. (2008) Intrinsic fluorescence as an analytical probe of virus-like particle assembly and maturation. Biochem Biophys Res Commun. 375: 351-5.

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