



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Human Papillomavirus 16 Oncoprotein E7

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-03401

Target Species

Viral

Isotype

IgG2a

Preparation

Immunogen: Oncoprotein E7 from human papillomavirus 16.

Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG – liquid

Buffer: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentration: IgG concentration 1.0mg/ml

Specificity

DS-MB-03401 recognizes both the monomer and dimer forms of the E7 oncoprotein of human papilloma virus 16. Human papillomavirus (HPV) is a diverse group of DNA-based viruses that infect skin and mucous membranes of humans and animals. Some HPV types are the causative agents of cervical cancer, with types 16 and 18 being particularly high-risk. The viral proteins E6 and E7 disrupts normal cell cycle regulation by interacting with p53 (a tumor-suppressing transcription factor) and Rb (retinoblastoma protein, also a tumor-suppressor). E7 particularly binds to Rb and histone deacetylases, resulting in activation of the E2F genes, which code for a family of transcription factors. The viral proteins E6 and E7 might be of particular interest in the development of therapeutic vaccines, since they are expressed early in viral infection.

DS-MB-03401 cross-reacts with both the monomer and dimer forms of the E7 protein of HPV-18.

**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
ELISA	•			
Western Blotting	•			
IHC – Paraffin			•	
IHC - Frozen			•	
Flow Cytometry			•	
Functional Assays			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

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

Storage

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

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life: 18 months from date of shipment

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