



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti Adenovirus Hexon Monoclonal Antibody

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-00029

Species
Virus

Isotype
Mouse IgG1

Description

Adenovirus is a DNA virus with at least 51 distinct serotypes divided into 6 subgenera, which cause human infections. It is a non-enveloped 80-110 nm diameter virus presenting an icosahedra symmetry. Human Adenoviruses contain a linear, double stranded DNA genome, with a terminal protein (TP) attached covalently to the 5' termini. The DNA, which has a length of approximately 36,000 bp, is wrapped in a histone-like protein and has inverted terminal repeats (ITRs) of 50-200 bp, which act as origins of replication. The hexon, penton base, and knobbed fiber are the most important capsid proteins with regards to gene delivery. Hexon is the major protein forming the 20 triangular faces of the viral capsid. The 240 hexon capsomers in the capsid are trimers, each interacting with six other trimers. The 12 vertices are formed by the penton capsomere, a complex of five copies of the penton base, and three copies of fiber. Each penton capsomere interacts with five hexon capsomeres, one from each of the five faces that converge at the vertex. The knobbed fiber protrudes from the fiber base.

Preparation

Purified IgG prepared by affinity chromatography on ProteinA. Immunogen is ATCC VR5 virus.

Specificity

This product recognizes the penton or hexon group antigen present in most adenovirus serotypes. Hexon protein is a major coat protein of adenoviruses. Adenoviruses capsids have three principal protein components: the hexon, the penton, and the fiber. Hexon consists of three subunits together forming two major components of different morphological symmetry. A triangular top with three towers of density is superimposed on a more bulky pseudo hexagonal base.

Formulation

0.1mg/ml IgG in 1x PBS with 0.09% Sodium Azide (NaN₃)

**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			.	
Immunohistology - frozen			.	
Immunohistology - paraffin			.	
Immunohistology - resin			.	
Immunoprecipitation			.	
Flow Cytometry			.	
Immunofluorescence staining			.	
Neutralization			.	

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 -20°C only. 18 months shelf life.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Please avoid freeze-thaw cycles.

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