



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Mouse Anti-Influenza A H5 Antigen

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-03437

**Target Species**  
Viral

**Isotype**  
IgG2a

### Preparation

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

**Immunogen:** Purified avian influenza virus type A (H5N1)

**Fusion Partners:** Spleen and lymph node cells from immunized Balb/C mice were fused with cells of the Sp2/0 myeloma cell line.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### Specificity

DS-MB-03437 detects hemagglutinin H5 from the Influenza A virus H5N1. Influenza A belongs to the Orthomyxoviridae family, and is a negative sense single-stranded RNA virus which results in respiratory disease.

Hemagglutinin is an antigenic glycoprotein which allows viral attachment and entry into the cell.

Sixteen subtypes of hemagglutinin (H1-H16) have been described, of which H1, H2 and H3 infect humans. H5 and H7 normally result in avian disease, with some highly pathogenic H5N1 strains causing 100% mortality in poultry. H5N1 has in some cases mutated to infect humans, with 60% mortality.

Hemagglutinin is one of the most medically relevant antigens on influenza as it is a target for antiviral drugs and antibodies.

### Applications

Table Summary of antibody applications and working conditions

Options \ Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			

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

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



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### 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. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

### Reference

1. Alexander, D.J. (2000) A review of avian influenza in different bird species. *Vet. Microbiol.* 22: 3-13.
2. Gauthier-Clerc, M. *et al.* (2007) Recent expansion of highly pathogenic avian influenza H5N1: a critical review. *IBIS.* 149: 202-214.

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