



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Mouse Anti Human HLA ABC:Low Endotoxin

With HRP-conjugated Secondary Antibody

<b>Catalog No.</b> DS-MB-01540	<b>Target Species</b> Human	<b>Isotype</b> IgG2a
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### Preparation

**Immunogen:** Purified human tonsil lymphocyte membranes.

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

**Fusion Partners:** Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1/1-Ag4.1 myeloma cell line.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** None present

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

**Endotoxin Level:** <0.01 EU/ug

### Specificity

DS-MB-01538 recognizes an antigenic determinant shared among products of the HLA A, B and C loci. This antibody recognizes a conformational epitope, reacting with HLA class I alpha3 and alpha2 domains (6). MHC class I glycoproteins are found on the surface of almost all nucleated somatic cells.

This product is routinely tested in flow cytometry on human peripheral blood lymphocytes.

**Species Crossreactivity:** Macaque, Bovine, Cat, Cynomolgus monkey and Baboon

### Storage

Store at -20°C only. 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
ELISA	•			
Western Blotting			•	
IHC - Paraffin		•		
IHC – Frozen (2)	•			
Immunoprecipitation	•			
Flow Cytometry (1)	•			1/50 - 1/100

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

(1) Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

(2) Histology Positive control: Tonsil

## Secondary Antibody Applications

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

## References

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2. Jacobsen, C. N. *et al.* (1993) Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. *Vet. Immunol. Immunopathol.* 39: 461-466 .
3. Yoshino, N. *et al.* (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49: 97-110 .

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4. Neefjes, J. J. *et al.* (1986) A biochemical characterization of feline MHC products: unusually high expression of class II antigens on peripheral blood lymphocytes. *Immunogenetics* 23: 341-347.
5. Stern, P. *et al.* (1987) Class I-like MHC molecules expressed by baboon placental syncytiotrophoblast. *J. Immunol.* 138: 1088-1091.
6. Verbeek, M. M. *et al.* (1995) T lymphocyte adhesion to human brain pericytes is mediated via very late antigen-4/vascular cell adhesion molecule-1 interactions. *J. Immunol.* 154: 5876-5884.
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8. Ishitani, A. *et al.* (2003) Protein expression and peptide binding suggest unique and interacting functional roles for HLA-E, F and G in maternal-placental immune recognition. *J Immunol.* 171: 1376-1384.

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