

# Product Data Sheet

## Purified anti-human HLA-A,B,C

**Catalog # / Size:** 311402 / 100 µg

**Clone:** W6/32

**Isotype:** Mouse IgG2a, κ

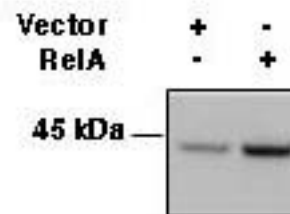
**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Cattle (Bovine, Cow), Cat (Feline)

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.



HEK293 cells were transfected with RelA or empty vector and 24hrs later cell extracts harvested using a 1% CHAPS lysis buffer. Extracts were resolved by non-denaturing, non-reducing electrophoresis, transferred to nitrocellulose, and probed with a 1:500 dilution purified W6/32. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence detection system. These data document that MHC class I was upregulated in cells constitutively expressing RelA. (Data was provided by Dr. Ezra Burstein, University of Michigan Medical School, Ann Arbor, MI).

## Applications:

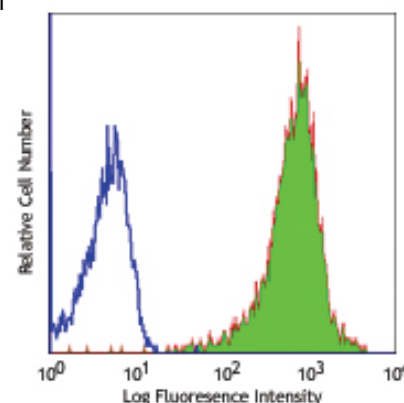
**Applications:** FC - Quality tested  
IP, WB, IHC - Reported in the literature

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 2.0 µg per 10<sup>6</sup> cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Clone W6/32 recognizes a monomorphic epitope on the 45 kD polypeptide products of HLA-A, B, C<sup>18</sup>.

Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup>, Western blotting (non-reducing)<sup>3</sup>, immunohistochemical staining of acetone-fixed frozen tissue sections<sup>4,5</sup>, blocking<sup>6,7</sup>, inhibition of NK cell-mediated lysis<sup>10</sup>, and activation<sup>8,9</sup>. Clone W6/32 has been reported not to be suitable for immunohistochemistry on paraffin sections<sup>17</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 311412). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 311428) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

- Application References:**
1. Darrow TL, et al. 1989. *J. Immunol.* 142:3329.
  2. Stern P, et al. 1987. *J. Immunol.* 138:1088.
  3. Tran TM, et al. 2001. *Immunogenetics* 53:440.
  4. Barbatis C, et al. 1981. *Gut* 22:985.
  5. Ayyoub M, et al. 2004. *Cancer Immunity* 4:7.
  6. DeFelice M, et al. 1990. *Cell. Immunol.* 126:420.
  7. Fayen J, et al. 1998. *Int. Immunol.* 10:1347.
  8. Turco MC, et al. 1988. *J. Immunol.* 141:2275.
  9. Geppert TD, et al. 1989. *J. Immunol.* 142:3763.
  10. Wooden SL, et al. 2005. *J. Immunol.* 175:1383.
  11. Nagano M, et al. 2007. *Blood* 110:151.
  12. McLoughlin RM, et al. 2008. *J. Immunol.* 181:1323. PubMed
  13. Takahara M, et al. 2008. *J. Leukoc. Biol.* 83:742. PubMed
  14. Lunemann A, et al. 2008. *J. Immunol.* 181:6170. PubMed
  15. Laing BJ, et al. 2010. *J. Thorac Cardiovasc Surg.* 139:1402. PubMed
  16. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
  17. Vambutas A, et al. 2000. *Clin. Diagn. Lab. Immun.* 7:79.
  18. Coppieters KT, et al. 2012. *J. Exp. Med.* 209:51. (epitope)
  19. Crivello P, et al. 2013. *Hum Immunol.* 22:100. PubMed.



Human peripheral blood lymphocytes stained with purified W6/32, followed by anti-mouse IgG FITC

**Description:** MHC class I antigens associated with β2-microglobulin are expressed by all human nucleated cells. MHC class I molecules are involved in presentation of antigens to CD8<sup>+</sup> T cells. They play an important role in cell-mediated immune responses and tumor surveillance.

**Antigen References:** 1. Barclay AN, et al. Eds. 1993. *The Leukocyte Antigen FactsBook*. Academic Press Inc. San Diego.

**Related Products:** **Product**  
Purified anti-human HLA-DR

**Clone**  
L243

**Application**  
FC, IHC, IP, WB, CyTOF®



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APC Goat anti-mouse IgG (minimal x-reactivity)  
Biotin Goat anti-mouse IgG (minimal x-reactivity)  
FITC Goat anti-mouse IgG (minimal x-reactivity)  
Purified Mouse IgG2a,  $\kappa$  Isotype Ctrl  
PE Goat anti-mouse IgG (minimal x-reactivity)  
Cell Staining Buffer  
RBC Lysis Buffer (10X)

Poly4053  
Poly4053  
Poly4053  
MOPC-173  
Poly4053

FC  
FC, ELISA, IHC, IF, WB  
FC  
FC, ICC, IF, IHC, IP, WB  
FC  
FC, ICC, ICFC  
FC, ICFC



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