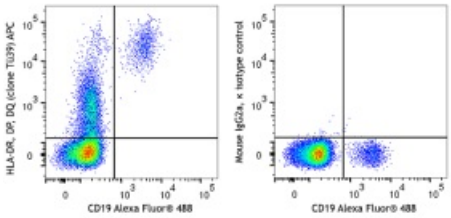
SONY

Product Data Sheet

APC anti-human HLA-DR, DP, DQ

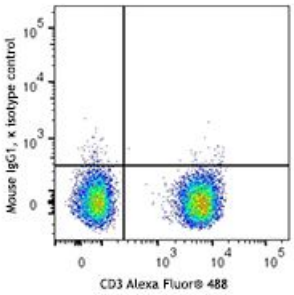
Catalog # / Size:	2408565 / 25 tests 2408570 / 100 tests
Clone:	Tü39
Isotype:	Mouse IgG2a, κ
Immunogen:	Human PBL
Reactivity:	Human, Non-human primate
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	750 under optimal conditions.
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD19 Alexa Fluor® 488 and HLA-DR, DP, DQ (clone Tü39) APC (left) or Mouse IgG2a, κ APC isotype control (right).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	TÜ39 has been reported to react with a shared epitope of HLA-DR, HLA-DP, and HLA-DQ. Additional reported applications (of relevant formats) include immunoprecipitation[6], *in vitro* blocking of MLR[5], and suppressor cell generation[4].



Whole cell extracts (15 µg protein) from the indicated cell lines were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane, and probed with 1.0 µg/mL (1:500 dilution) of purified anti-HMOX1 antibody (clone W19398C) overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-rat IgG antibody (Cat. No. 405405) at 2.0 µg/mL dilution. Direct-Blot™ HRP anti-GAPDH antibody (Cat. No. 607904) was used as a loading control at a 1:50000 dilution (lower). Lane M: Molecular weight marker.

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Application References:

1. Pawelec G, *et al.* 1985. *Hum. Immunol.* 12:165.
2. Shaw S, *et al.* 1985. *Hum. Immunol.* 12:191.
3. Ziegler A, *et al.* 1986. *Immunobiology* 171:77.
4. Pawelec G, *et al.* 1986. *Hum. Immunol.* 17:343. (Block)
5. Dai Z, *et al.* 2009. *J. Exp. Med.* 206:793. (Block)
6. Pawelec G, *et al.* 1988. *J. Exp. Med.* 167:243. (IP)

Description: HLA-DR, HLA-DP, and HLA-DQ are heterodimeric cell surface glycoproteins comprised of an α (heavy) chain and a β (light) chain. They are expressed on B cells, activated T cells, monocytes/macrophages, dendritic cells, and other non-professional APCs. In conjunction with the CD3/TCR complex and CD4 molecules, HLA-DR is critical for efficient peptide presentation to CD4+ T cells. Variations in the HLA gene expression are crucial to graft survival.

Antigen References:

1. Thorsby E. 1974. *Transplant. Rev.* 18:51.
2. Qvigstad E, *et al.* 1984. *Hum. Immunol.* 11:207.
3. Servenius B, *et al.* 1984. *EMBO J.* 3:3209.
4. Ottenhoff TH, *et al.* 1985. *Hum. Immunol.* 13:105.
5. Strassmann G, *et al.* 1985. *Hum. Immunol.* 13:125.
6. Trowsdale J, *et al.* 1985. *Immunol Rev.* 85:5.

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