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Datasheet for ABIN2749036
anti-HLA-DR antibody

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Overview

Quantity:	0.1 mg
Target:	HLA-DR
Reactivity:	Human, Dog, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-DR antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC), Functional Studies (Func)

Product Details

Immunogen:	Human B lymphocytes
Clone:	L243
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody L243 recognizes specifically an extracellular epitope on HLA-DR molecules, both peptide-loaded and empty.
Cross-Reactivity (Details):	Human, Non-Human Primates, Canine (Dog)
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

Target Details

Target:	HLA-DR
Alternative Name:	HLA-DR (HLA-DR Products)
Background:	HLA-DR, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system.

Application Details

Application Notes:	Functional application: Blocking. Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only

Handling

|	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	De Gassart, Camosseto, Thibodeau, Ceppi, Catalan, Pierre, Gatti: "MHC class II stabilization at the surface of human dendritic cells is the result of maturation-dependent MARCH I down-regulation." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 105, Issue 9, pp. 3491-6, (2008) (PubMed).
	Muczynski, Ekle, Coder, Anderson: "Normal human kidney HLA-DR-expressing renal microvascular endothelial cells: characterization, isolation, and regulation of MHC class II expression." in: **Journal of the American Society of Nephrology : JASN**, Vol. 14, Issue 5, pp. 1336-48, (2003) (PubMed).
	Bouillon, El Fakhry, Girouard, Khalil, Thibodeau, Mourad: "Lipid raft-dependent and -independent signaling through HLA-DR molecules." in: **The Journal of biological chemistry**, Vol. 278, Issue 9

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Publications

, pp. 7099-107, (2003) (PubMed).

Kalka-Moll, Tzianabos, Bryant, Niemeyer, Ploegh, Kasper: "Zwitterionic polysaccharides stimulate T cells by MHC class II-dependent interactions." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 169, Issue 11, pp. 6149-53, (2002) (PubMed).

Coral, Pucillo, Leonardi, Fonsatti, Altomonte, Maio: "Triggering of HLA-DR antigens differentially modulates tumor necrosis factor alpha release by B cells at distinct stage of maturation." in: **Cell growth & differentiation : the molecular biology journal of the American Association for Cancer Research**, Vol. 8, Issue 5, pp. 581-8, (1997) (PubMed).

Images
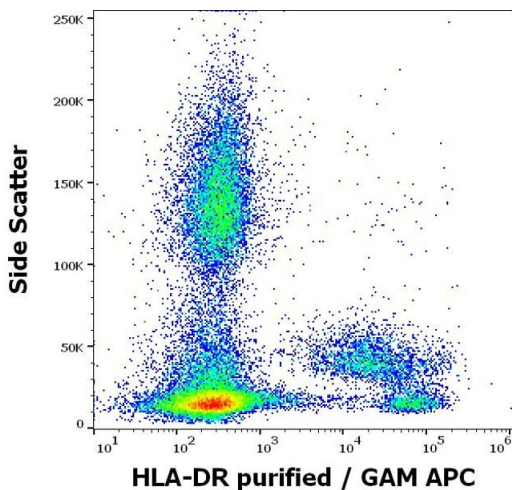
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human HLA-DR (L243) purified antibody (concentration in sample 0.3 µg/mL) GAM APC.
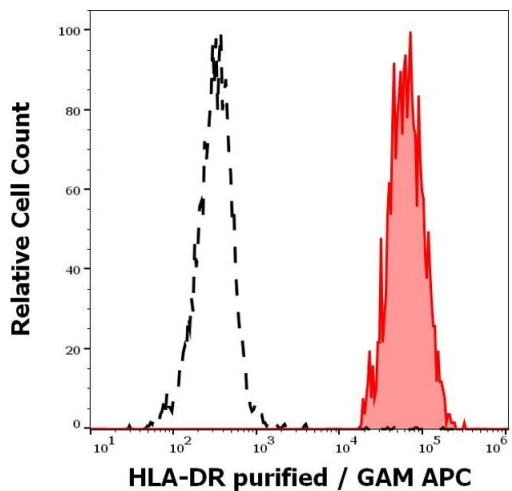
Flow Cytometry

Image 2. Separation of human HLA-DR positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-DR (L243) purified antibody (concentration in sample 0.3 µg/mL) GAM APC.