

Mouse anti-Human IgD Antibody | anti-IgD antibody

Anti-Hu IgD FITC

CATALOG # AAA129337	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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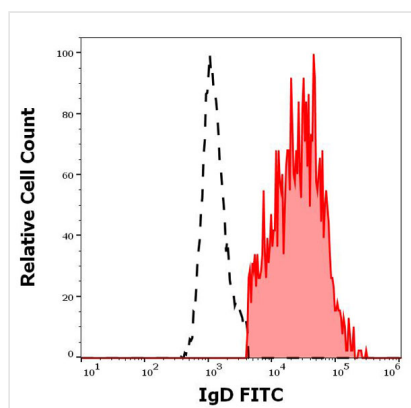
PRODUCT SYNONYMS

IgD; Anti-Hu IgD FITC; Immunoglobulin D; anti-IgD antibody

PRODUCT SPECIFICATIONS

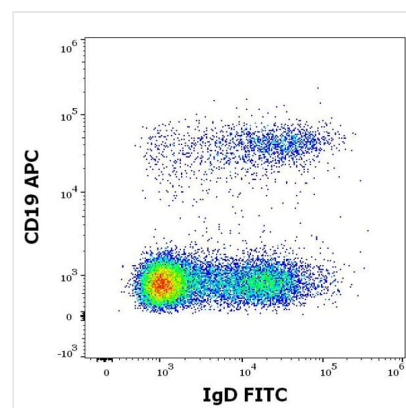
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG2a kappa
Clone Number	IA6-2
Specificity	The mouse monoclonal antibody IA6-2 recognizes human immunoglobulin D.
Purity/Purification	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-IgD antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human IgD
Conjugation	FITC
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



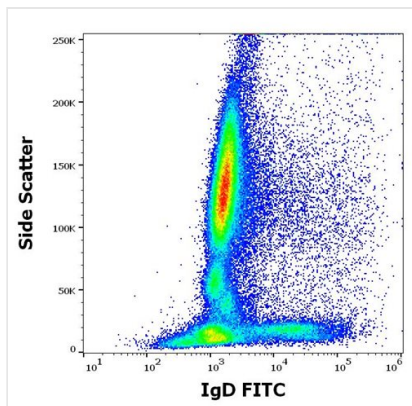
FCM/FACS (Flow Cytometry)

Separation of human CD19 positive IgD positive B cells (red-filled) from CD19 negative IgD negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human IgD (IA6-2) FITC antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry multicolor surface staining pattern of human lymphocytes stained using anti-human CD19 (LT19) APC antibody (10ul reagent/100ul of peripheral whole blood) and anti-human IgD (IA6-2) FITC antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)
Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human IgD (IA6-2) FITC antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-IgD antibody	Immunoglobulin D (IgD) is expressed on the surface of naive mature B cells, thus later than IgM, and is coexpressed with it then. Triggered by antigen binding, it signals through the CD79 complex to activate the B cells. Expression of IgD is lost after the isotype switch. Soluble IgD is present in very small amounts in the serum. IgD can bind to basophils and mast cells to activate them in an IgE-independent way to participate in respiratory immune defense.
References	*Bunch DO, McGregor JG, Khandoobhai NB, Aybar LT, Burkart ME, Hu Y, Hogan SL, Poulton CJ, Berg EA, Falk RJ, Nachman PH: Decreased CD5? B cells in active ANCA vasculitis and relapse after rituximab. Clin J Am Soc Nephrol. 2013 Mar;8(3):382-91, URL: https://pubmed.ncbi.nlm.nih.gov/23293123/,*Baier G, Baier-Bitterlich G, Looney DJ, Altman A: Immunogenic targeting of recombinant peptide vaccines to human antigen-presenting cells by chimeric anti-HLA-DR and anti-surface immunoglobulin D antibody Fab fragments in vitro. J Virol. 1995 Apr;69(4):2357-65., URL: https://pubmed.ncbi.nlm.nih.gov/7533857/,*Ferrari S, Giliani S, Insalaco A, Al-Ghonaium A, Soresina AR, Loubser M, Avanzini MA, Marconi M, Badolato R, Ugazio AG, Levy Y, Catalan N, Durandy A, Tbakhi A, Notarangelo LD, Plebani A: Mutations of CD40 gene cause an autosomal recessive form of immunodeficiency with hyper IgM. Proc Natl Acad Sci U S A. 2001 Oct 23;98(22):12614-9., URL: https://www.ncbi.nlm.nih.gov/pubmed/11675497,*Di Sabatino A, Carsetti R, Rosado MM, Ciccocioppo R, Cazzola P, Morera R, Tinozzi FP, Tinozzi S, Corazza GR: Immunoglobulin M memory B cell decrease in inflammatory bowel disease. Eur Rev Med Pharmacol Sci. 2004 Sep-Oct;8(5):199-203., URL: https://pubmed.ncbi.nlm.nih.gov/15638230/,*Pugh-Bernard AE, Silverman GJ, Cappione AJ, Villano ME, Ryan DH, Insel RA, Sanz I: Regulation of inherently autoreactive VH4-34 B cells in the maintenance of human B cell tolerance. J Clin Invest. 2001 Oct;108(7):1061-70., URL: https://pubmed.ncbi.nlm.nih.gov/11581307/,*Degauque N, Ngono AE, Akl A, Lepetit M, Crochette R, Giral M, Lepourry J, Pallier A, Castagnet S, Dugast E, Guillot-Gueguen C, Jacq-Foucher M, Saulquin X, Cesbron A, Laplaud D, Nicot A, Brouard S, Soullilou JP: Characterization of antigen-specific B cells using nominal antigen-coated flow-beads. PLoS One. 2013 Dec 30;8(12):e84273., URL: https://pubmed.ncbi.nlm.nih.gov/24386360/,*Chang NH, McKenzie T, Bonventi G, Landolt-Marticorena C, Fortin PR, Gladman D, Urowitz M, Wither JE: Expanded population of activated antigen-engaged cells within the naive B cell compartment of patients with systemic lupus erythematosus. J Immunol. 2008 Jan 15;180(2):1276-84., URL: http://www.ncbi.nlm.nih.gov/pubmed/18178868,*Quardokus EM, Saunders DC, McDonough E, Hickey JW, Werlein C, Surrette C, Rajbhandari P, Martinez Casals A, Tian H, Lowery L, Neumann EK, Bjorklund F, Neelakantan TV, Croteau J, Wiblin AE, Fisher J, Livengood AJ, Dowell KG, Silverstein JC, Spraggins JM, Pryhuber GS, Deutsch G, Ginty F, Nolan GP, Melov S, Jonigk D, Caldwell MA, Vlachos IS, Mueller W, Gehlenborg N, Stockwell BR, Lundberg E, Snyder MP, Germain RN, Camarillo JM, Kelleher NL, Borner K, Radtke AJ: Organ mapping antibody panels: a community resource for standardized multiplexed tissue imaging. Nat Methods 2023 Aug;20(8):1174-1178. doi: 10.1038/s41592-023-01846-7., URL: https://pubmed.ncbi.nlm.nih.gov/37468619/,

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