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**PE/Cy7 anti-human IgD**

<b>Catalog # / Size:</b>	2341045 / 25 tests 2341050 / 100 tests
<b>Clone:</b>	IA6-2
<b>Isotype:</b>	Mouse IgG2a, $\kappa$
<b>Immunogen:</b>	Human IgD
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. <b>Test size products are transitioning from 20 microL to 5 microL per test.</b> Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes:</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraformaldehyde fixed frozen sections. <sup>4</sup>
<b>Application References:</b>	1. Chen K, <i>et al.</i> 2009. <i>Nat. Immunol.</i> 10:889. 2. Lee CH, <i>et al.</i> 2005. <i>J. Exp. Med.</i> 203:63. 3. Sutter JA, <i>et al.</i> 2008. <i>Clin. Immunol.</i> 126:282. 4. Li H and Pauza CD. 2015. <i>Eur. J. Immunol.</i> 45:298. (IHC)

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**Description:** IgD, a member of the immunoglobulin (Ig) family, is expressed in naïve B cells. It has 3 Ig-like domains and exists in a transmembrane and a soluble form. In general, IgD is not secreted and usually its expression is lost after the Ig isotype switch. After antigen binding, IgD signals through the CD79a/CD79b (Ig $\alpha$ /Ig $\beta$ ) heterodimer, resulting in the activation of the B cell.

**Antigen References:** 1. Geisberger R, *et al.* 2006. *Immunology* 118:429.  
2. Weller S, *et al.* 2005. *Eur. J. Immunol.* 35:2789.  
3. Brandtzaeg P and Johansen FE. 2005. *Immunol. Rev.* 206:32.