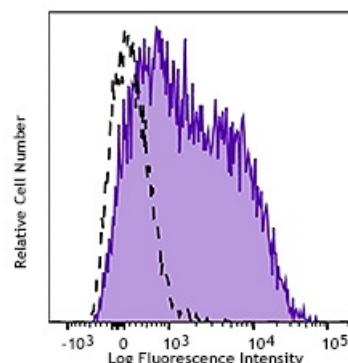


# PE/Cyanine7 anti-human CD166

<b>Catalog # / Size:</b>	2319555 / 25 tests
<b>Clone:</b>	3A6
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Cultured human thymic epithelial cells
<b>Reactivity:</b>	Human, Non-human primate, Other
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 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>Workshop Number:</b>	HCDM listed
<b>Concentration:</b>	Lot-specific



PHA-stimulated (3 day) human peripheral blood lymphocytes were stained with CD166 (clone 3A6) PE/Cyanine7 (filled histogram) or mouse IgG1,  $\kappa$  PE/Cyanine7 isotype control (open histogram).

## 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. For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Application Notes:</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of paraffin-embedded tissue sections and immunofluorescence. <sup>1</sup>
<b>Application References:</b>	1. Pretzel D, <i>et al.</i> 2011. <i>Arthritis Res. Ther.</i> 13:R64. (IHC, IF, FC)

<b>Description:</b>	CD166, also known as the CD6 ligand or the Activated Leukocyte Cell Adhesion Molecule (ALCAM), is a 100-105 kD transmembrane glycoprotein. It belongs to the Ig superfamily of proteins and expressed on activated T cells, activated monocytes, epithelial cells, fibroblasts, and neurons. CD166 plays an important role in mediating adhesion interactions between thymic epithelial cells and CD6+ cells during intrathymic T cell development. Recently CD166 has also been used as a potential cancer stem cell marker. The antibody reacts with human activated leukocyte cell adhesion molecule (ALCAM).
<b>Antigen References:</b>	1. Aruffo A, <i>et al.</i> 1997. <i>Immunol Today.</i> 18(10):498 2. Patel DD, <i>et al.</i> 1995. <i>J. Exp. Med.</i> 181:2213 3. Bowen MA, <i>et al.</i> 1995. <i>J. Exp. Med.</i> 181:1563 4. Horst D, <i>et al.</i> 2009. <i>Cancer Invest.</i> 22:1