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**[ Marker Primary Antibody ]**

# Rabbit Anti-CD1E/PE-Cy5 Conjugated antibody

**Catalog Number: SL23497R-PE-Cy5**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-CD1E/PE-Cy5 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human CD1E |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | Flow-Cyt=1ug/Test<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human |
| **Background:** | background: This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1.<br>The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes within Golgi compartments, endosomes, and lysosomes, and is cleaved into a stable soluble form. The soluble form is required for the intracellular processing of some glycolipids into a form that can be presented by other CD1 family members.<br>Many alternatively spliced transcript variants encoding different isoforms have been described. Additional transcript variants have been found; however, their |

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| | biological validity has not been determined. [provided by RefSeq, Jun 2010]<br>**Function:** T-cell surface glycoprotein CD1e, soluble binds diacetylated lipids, including phosphatidyl inositides and diacylated sulfoglycolipids, and is required for the presentation of glycolipid antigens on the cell surface. The membrane-associated form is not active.<br>**Subcellular Location:** Lysosome lumen and Golgi apparatus membrane. Early endosome. Late endosome. Predominantly localized in the trans-Golgi network in immature dendritic cells, and as a cleaved, soluble protein in the lysosome lumen of mature dendritic cells.<br>**Tissue Specificity:** Expressed on cortical thymocytes, dendritic cells, Langerhans cells, on certain T-cell leukemias, and in various other tissues.<br>**Post-translational modifications:** Mono-ubiquitinated.<br>Proteolytically cleaved in late endosomes to yield a soluble form.<br>**Similarity:** Contains 1 Ig-like (immunoglobulin-like) domain.<br>**Database links:**<br>**Entrez Gene:** 913 Human<br>Omim: 188411 Human<br>**SwissProt:** P15812 Human<br>**Unigene:** 249217 Human<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |