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## 36-1602: Monoclonal Antibody to CD45 / LCA (Leucocyte Marker)(Clone: 136-4B5)

Clonality: Monoclonal **Clone Name:** 136-4B5 Application: IHC Reactivity: Human Gene: PTPRC Gene ID: 5788 **Uniprot ID:** P08575 Format: Purified **Alternative Name:** PTPRC,CD45 Isotype: Mouse IgG1, kappa

Immunogen Information: Stimulated human leukocytes

## **Description**

CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. This MAb reacts with all isoforms of CD45R expressed by all hematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes (Workshop IV). Epitope of this MAb resides in the sialic acid moiety of T200 molecule. It enhances the proliferative response of B cells in an anti-immunoglobulin-induced B cell proliferation. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.

## **Product Info**

**Amount:** 20 μg / 100 μg

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

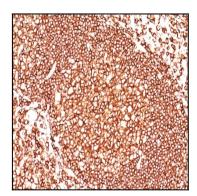
## **Application Note**

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);



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 $\label{thm:prop:prop:prop:prop:stained} Figure -1: Formalin-fixed, paraffin-embedded human Tonsil stained with CD45 Monoclonal Antibody (136-4B5).$