

A Reliable Research Partner in Life Science and Medicine

# Purified Anti-Human CD45 Antibody[HI30]

catalog number: E-AB-F1137A

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human

Immunogen Recombinant Human CD45 protein

**Host** Mouse

**Isotype** Mouse IgG1, κ

Clone HI30

**Purification** >98%, Protein A/G purified

**Buffer** Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer.

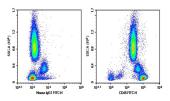
Dialyze to completely remove the stabilizer prior to labeling.

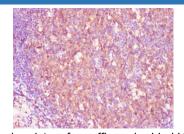
## Applications Recommended Dilution

FCM  $2 \mu g/mL(0.5 \times 10^6 - 1 \times 10^6 \text{ cells})$ 

IHC 1:50-1:100

#### Data





Human peripheral blood were stained with 0.2 μg Purified Anti-Human CD45 Antibody[HI30] (Right) and 0.2 μg Mouse IgG1, κ Isotype Control (Left), followed by FITC-conjugated

Immunohistochemistry of paraffin-embedded Human tonsil using CD45 Monoclonal Antibody at dilution of 1:100.

Goat Anti-Mouse IgG Secondary Antibody.

### **Preparation & Storage**

Storage Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles.

Shipping Ice bag

#### **Background**

CD45 is a 180 - 240 kD single chain type I membrane glycoprotein also known as leukocyte common antigen (LCA) and T200. It is a tyrosine phosphatase expressed on the plasma membrane of all hematopoietic cells, except erythrocytes or platelets. CD45 is a signaling molecule that regulates a variety of cellular processes including cell growth, differentiation, cell cycle, and oncogenic transformation. CD45 plays a critical role in T and B cell antigen receptor-mediated activation by dephosphorylating substrates including p56Lck, p59Fyn, and other Src family kinase s. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to bind galectin-1 and to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4.

For Research Use Only

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