

## anti-human CD45 PerCP-conjugated

PerCP -conjugated monoclonal antibody LT45 to CD45 (Human)

Cat-No: **21380455**

500 µl

**Clone:** LT45

**Specificity:** MAb LT45 reacts with CD45 antigen (MW 200 kDa)

**CD45 is found on all human leukocytes and the MAb can be used for typing of lymphomas.**

**Immunogen:** human peripheral blood lymphocytes

**Isotype subclass:** Mouse IgG1

**Form:** The purified antibody is conjugated with Peridin Chlorophyll under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing BSA and 15 mM sodium azide (pH 7.4).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. Avoid prolonged exposure to light.

**Application:** Flow Cytometry

**Background:** **CD45** (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45 protein exists as multiple isoforms as a result of alternative splicing; these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis

### Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

**ImmunoTools** Excellent Quality - Advantageously priced

ImmunoTools GmbH - Altenoyther Str. 10; 26169 Friesoythe; Germany  
Tel +49-(0)4491-400997, Fax +49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)