

# Anti-CD45RA [4KB5]

**Catalogue number:** 151362

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Karen Pulford

**Institute:** University of Oxford

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-CD45RA [4KB5]

**Alternate name:** Protein Tyrosine Phosphatase; Receptor Type C; CD45 Antigen; CD45; L-CA; T2; Protein Tyrosine Phosphatase; Receptor Type; C Polypeptide; T2 Leukocyte Common Antigen; T2 Glycoprotein; EC 3.1.3.48; GP18; CD45R; B22; LCA; LY5

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** PTPRC (CD45) is a transmembrane tyrosine phosphatase that is present on all leukocytes. PTPRC regulates the threshold of T cell antigen receptor (TCR) signaling through dephosphorylation of protein tyrosine kinases (e.g. Lck and Fyn). CD45RA is an isoform of the PTPRC (CD45) protein which is selectively expressed on B cells.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1 kappa

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** B cell lymphoma

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:**

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** Protein tyrosine phosphatase, receptor type, C (PTPRC, CD45RA)

**Target alternate names:**

**Target background:** PTPRC (CD45) is a transmembrane tyrosine phosphatase that is present on all leukocytes. PTPRC regulates the threshold of T cell antigen receptor (TCR) signaling through dephosphorylation of protein tyrosine kinases (e.g. Lck and Fyn). CD45RA is an isoform of the PTPRC (CD45) protein which is selectively expressed on B cells.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** FACS ; IHC ; IP ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 0.9-1.1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Chijiwa et al. 2015. Int J Oncol. :. PMID: 25963555. ; Tsuneki et al. 2015. Lab Invest. :. PMID: 25961170. ; A hydrogel-endothelial cell implant mimics infantile hemangioma: modulation by survivin and the Hippo pathway. ; Establishment of patient-derived cancer xenografts in immunodeficient NOG mice. ; Gatter et al. 1984. Am J Clin Pathol. 82(1):33-43. PMID: 6741874. ; The differential diagnosis of routinely processed anaplastic tumors using monoclonal antibodies. ; Warnke et al. 1983. N Engl J Med. 309(21):1275-81. PMID: 6355845. ; Diagnosis of human lymphoma with monoclonal antileukocyte antibodies. ; Gatter et al. 1983. J Biol Response Mod. 2(4):369-95. PMID: 6196454. ; Monoclonal antibodies in diagnostic pathology: techniques and applications.

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