

## Monoclonal anti-human CD45 antibody (clone 3G4)

**Mouse IgG<sub>2a</sub>, κ**

**Cat. No. IBACD0802**

**Immunogen:** Recombinant human CD45 (1029-1249aa) purified from *E. coli*

**NCBI Accession No.:** NP\_002829

**Isotype:** Mouse IgG<sub>2a</sub> heavy chain and κ light chain

**Clone:** Anti-human CD45 mAb, clone 3G4, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CD45 protein.

**Description:** CD45 belongs to a family of heavily glycosylated, high molecular weight transmembrane glycoproteins expressed on all cells of haematopoietic origin. Structurally heterogeneous, CD45 consists of a family of eight isoforms ranging from 180,000 to 220,000 MW generated by alternative splicing of three exons differentially expressed on subpopulation of lymphocytes. CD45 protein tyrosine phosphatase activity plays a central role in T-cell activation. CD45 plays an important role in signal transduction inhibition or upregulation of various immunological functions,

**Concentration:** 1mg/ml

**Form:** Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

**Storage:** Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

**Usage:** The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1,000 ~ 3,000.  
Recommended starting dilution is 1:2,000.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

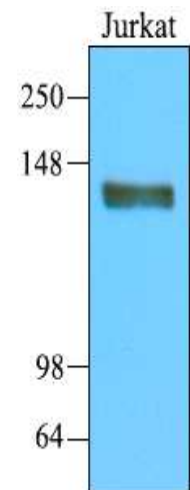
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# Product information

**Application:** ELISA, WB

## Western blot analysis

Cell lysates of Jurkat(20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD45 (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



**General references:** Evgueni K , *et al.*, (2005) *Immunogenetics* 57(5):374-383  
Holmes N., (2006) *Immunology* 117(2):145-155  
Francois S , *et al.*, (2004) *Immunology* 113(4):441-452  
Tara S , *et al.*, (2003) *Proc Natl Acad Sci U S A* 100(10):5997-6002

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