

## CD45 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX00087

Clone# RR691

**Predicted Molecular Wt:** 147kDa

**Purity:** ProA affinity purified IgG

**Species Cross-reactivity:** Human

**Form:** Liquid

*Species cross-reactivity determined by WB*

**Swissprot ID:** P08575

**Applications:** WB IHC-P FC

### Background:

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity.

### Immunogen:

A synthetic peptide corresponding to residues aa300-400 (intracellular) of human CD45 was used as an immunogen.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-20°C.

### Storage instructions:

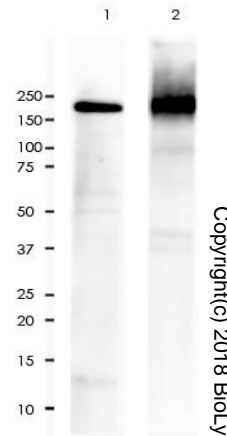
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:

WB: 1:1,000 - 1:2,000  
 IHC-P: 1:400 - 1:800  
 FC: 1:800 - 1:2,000

### Background References:

- Wei JC et al. Clin Cancer Res 23:214-224 (2017).
- Murata T et al. Cell Cycle 16:533-535 (2017).



Copyright(c) 2018 BioLynx

All lanes: Anti-CD45 antibody at 1:1,000 dilution

Predicted MW: 147 kDa

Observed MW: 200 kDa

Lane 1: Jurkat

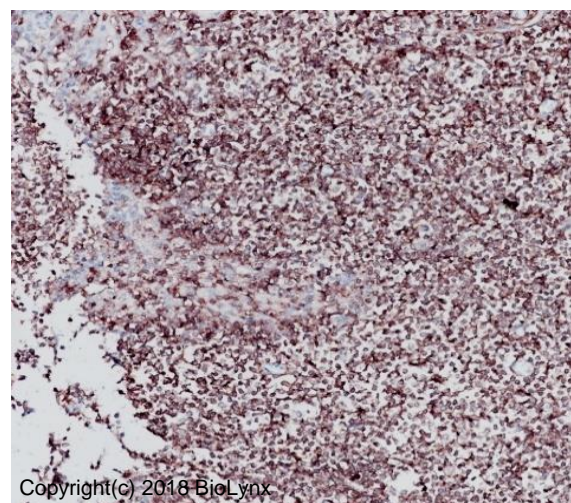
Lane 2: Raji

Lysate at 10 µg per lane

2nd Ab:

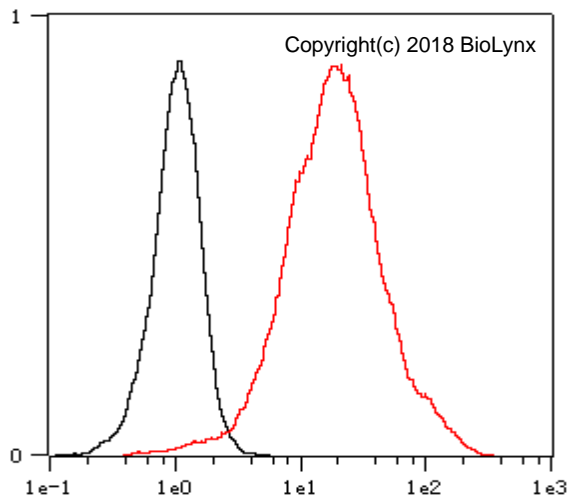
GAR HRP(H+L) 1:5,000

Exposure: 120s



Copyright(c) 2018 BioLynx

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CD45 with RR691 at 1:800. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



Overlay histogram showing Jurkat cells stained with RR691 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR691, 1:2,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.