

Product datasheet

# Anti-CD45R antibody [RA3-6B2] (Phycoerythrin -Texas Red®) ab51536

1 Image

Overview

<b>Product name</b>	Anti-CD45R antibody [RA3-6B2] (Phycoerythrin -Texas Red®)
<b>Description</b>	Rat monoclonal [RA3-6B2] to CD45R (Phycoerythrin -Texas Red®)
<b>Conjugation</b>	Phycoerythrin -Texas Red®. Ex: 496nm, Em: 613nm
<b>Specificity</b>	Specific for B220 isoform of CD45 (240 kDa)
<b>Tested applications</b>	<b>Suitable for:</b> IP, IHC-Fr, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Abelson murine leukemia virus-induced pre-B tumor cells

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS and stabilizing agent.
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	RA3-6B2
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab51536** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent dilution.
IHC-Fr		Use at an assay dependent dilution.

**Target****Function**

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.

**Involvement in disease**

Defects in PTPRC are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)B(+)NK(+)) SCID [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development. Genetic variations in PTPRC are involved in multiple sclerosis susceptibility (MS) [MIM:126200]. MS is a neurodegenerative disorder characterized by the gradual accumulation of focal plaques of demyelination particularly in the periventricular areas of the brain. Peripheral nerves are not affected. Onset usually in third or fourth decade with intermittent progression over an extended period. The cause is still uncertain.

**Sequence similarities**

Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. Contains 2 fibronectin type-III domains. Contains 2 tyrosine-protein phosphatase domains.

**Domain**

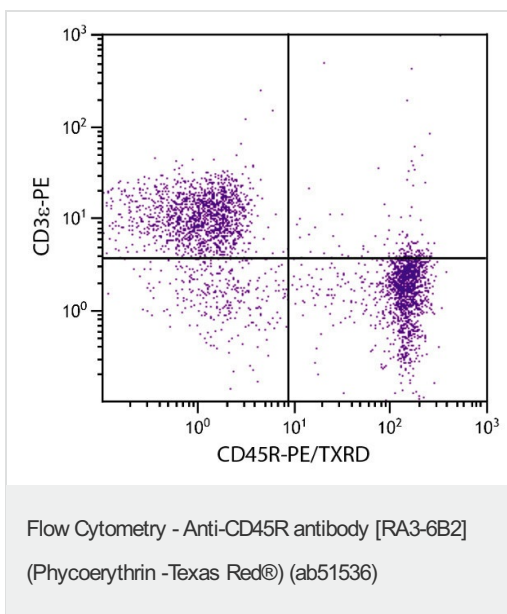
The first PTPase domain interacts with SKAP1.

**Post-translational modifications**

Heavily N- and O-glycosylated.

**Cellular localization**

Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

**Anti-CD45R antibody [RA3-6B2] (Phycoerythrin -Texas Red®) images**

Flow Cytometry analysis of BALB/c mouse splenocytes stained with Anti-CD45R antibody [RA3-6B2] (Phycoerythrin -Texas Red) (ab51536) (0.1 µg/10<sup>6</sup>cells) and Anti-CD3 epsilon antibody [C363.29B] (Phycoerythrin).

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors