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## Recombinant Rat CD5 / Cluster of Differentiation 5 Protein (His Tag)

Catalog Number: PDER100234

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Species Rat

Source E.coli-derived Rat CD5 protein Ser25-Pro368, with an N-terminal His

 Calculated MW
 37.7 kDa

 Observed MW
 42 kDa

 Accession
 P51882

Bio-activity Not validated for activity

#### **Properties**

**Purity** > 95% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

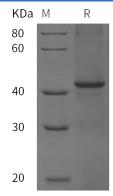
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

#### Data



SDS-PAGE analysis of Rat CD5 / Cluster of Differentiation 5 proteins, 2 µg/lane of Recombinant Rat CD5 / Cluster of Differentiation 5 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 42 kDa.

### **Background**

For Research Use Only

 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web: www.elabscience.com
 Email: techsupport@elabscience.com

# **Elabscience®**

#### Elabscience Bionovation Inc.

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The cluster of differentiation (CD) system is commonly used as cell markers in immunophynotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD5 is a member of the CD system. CD5 was found to be widely distributed in T-cells and B1 cells which is a subset of IgM-secreting B cells. CD5 also was found expressed in small lymphocytic lymphoma, hairy cell leukaemia and mantle cell lymphoma cells. CD5 serves to weaken the activating stimulus from the BCR so that the B1 cells can only reflect to the very strong stimuli but not the normal tissue proteins.

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