

### Recombinant mouse CD45 protein ab102105

画像数 2

#### 製品の詳細

製品名	Recombinant mouse CD45 protein
生理活性	Specific activity determined to be 9900 nmol phosphate release/min/mg.
精製度	> 80 % SDS-PAGE. ab102105 was determined to be >80% as assessed by densitometry.
発現系	Escherichia coli
アクセッション番号	<b>P06800</b>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Mouse
予測される分子量	116 kDa including tags
領域	592 to 1291

#### 特性

Our **Abpromise guarantee** covers the use of **ab102105** in the following tested applications.

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

アプリケーション	SDS-PAGE
	Western blot
	Functional Studies
製品の状態	Liquid

#### 前処理および保存

保存方法および安定性	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	pH: 7.50
	Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

### 機能

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.

### 関連疾患

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.

### 配列類似性

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

### ドメイン

The first PTPase domain interacts with SKAP1.

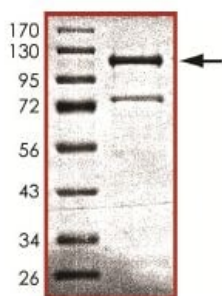
### 翻訳後修飾

Heavily N- and O-glycosylated.

### 細胞内局在

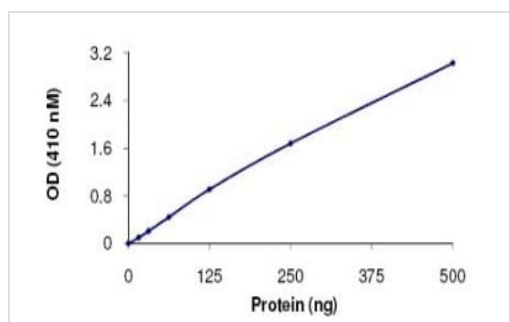
Membrane. Membrane raft. Colocalized with DPP4 in membrane rafts.

## 画像



SDS-PAGE - Recombinant mouse CD45 protein  
(ab102105)

ab102105 was determined to be >80% pure by densitometry.  
Predicted molecular weight 16 kDa.



Phosphatase Activity - Recombinant mouse CD45 protein (ab102105)

The specific activity of ab102105 was determined to be 9900 nmol phosphate release/min/mg.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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