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Datasheet for ABIN7479556
RBCL Protein (full length)

1 Image

Overview

Quantity:	1 mg
Target:	RBCL
Protein Characteristics:	full length
Origin:	Spinach
Host:	Please inquire
Protein Type:	Native
Application:	ELISA, Western Blotting (WB)

Product Details

Characteristics:	Full length native Ribulose-1, 5-bisphosphate carboxylase oxygenase
Purification:	Purified from spinach leaf
Purity:	> 95 %(SDS-PAGE)

Target Details

Target:	RBCL
Alternative Name:	Ribulose-1, 5-Bisphosphate Carboxylase Oxygenase (RBCL Products)
Background:	Background: Ribulose-1, 5-bisphosphate carboxylase oxygenase, most commonly known by the shorter name RuBisCO, is an enzyme involved in the Calvin cycle that catalyzes the first major step of carbon fixation, a process by which the atoms of atmospheric carbon dioxide are made available to organisms in the form of energy-rich molecules such as glucose. RuBisCO catalyzes either the carboxylation or the oxygenation of ribulose-1, 5-bisphosphate (also known

Target Details

as RuBP) with carbon dioxide or oxygen. RuBisCO is very important in terms of biological impact because it catalyzes the primary chemical reaction by which inorganic carbon permanently enters the biosphere. Many autotrophic bacteria and archaea fix carbon via the reductive acetyl CoA pathway, the 3-hydroxypropionate cycle or the reverse Krebs cycle, but they make up a relatively minor portion of global net primary production. Phosphoenolpyruvate carboxylase PEPC only temporarily fixes carbon. RuBisCO is also the most abundant protein in leaves, and is considered to be the most abundant protein on Earth.It accounts for 50% of soluble leaf protein in C3 plants (20-30% of total leaf nitrogen) and 30% of soluble leaf protein in C4 plants (5-9% of total leaf nitrogen).Given its important role in the biosphere, there are currently efforts to genetically engineer crop plants so as to contain more efficient RuBisCO. Synonyms: RuBisCO.
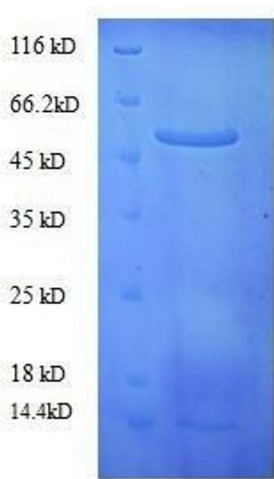
Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20mMPB pH7.4, 1mMDTT, 0.1mMEDTA, 12.5%glycerol

Images

SDS-PAGE

Image 1.