

Recombinant Cynomolgus SIRP- α /CD172a Protein

Catalog No.: RP02638

Sequence Information

Species	Gene ID
Cynomolgus	101926317
Swiss Prot	Tags
I7G9Z7	C-His

Synonyms

CD172a; BIT; MFR; MYD1; MYD-1; P84; PTPNS1; SHP substrate 1; SHPS1; SHPS-1; SHPS1CD172A; SIRP α ; SIRPA; Sirp- α -1; SIRPalph2; Sirp- α -2; Sirp- α -3

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
38.2 kDa	60-70 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Signal regulatory protein α (SIRP α) is a regulatory membrane glycoprotein from SIRP family expressed mainly by myeloid cells and also by stem cells or neurons. SIRP α acts as inhibitory receptor and interacts with a broadly expressed transmembrane protein CD47 also called the "don't eat me" signal. Cancer cells highly expressed CD47 that activate SIRP α and inhibit macrophage-mediated destruction.

Basic Information

Description

Recombinant Cynomolgus SIRP- α /CD172a Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Glu31-Arg370) of Cynomolgus CD172a fused with His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

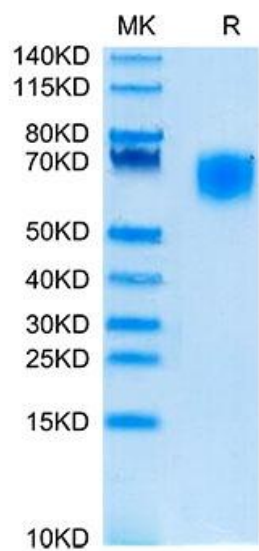
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

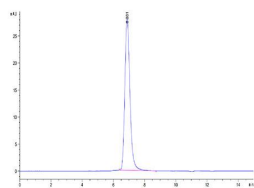
Contact

		400-999-6126
		cn.market@abclonal.com.cn
		www.abclonal.com.cn

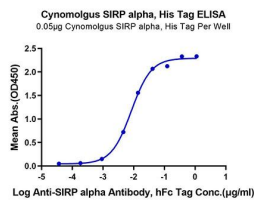
Validation Data



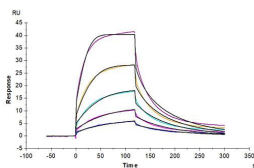
Recombinant Cynomolgus SIRP- α /CD172a Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Cynomolgus SIRP α is greater than 95% as determined by SEC-HPLC.



Immobilized Cynomolgus SIRP α , His Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-SIRP α Antibody, hFc Tag with the EC_{50} of 8.3ng/ml determined by ELISA.



Cynomolgus SIRP α , His Tag immobilized on CM5 Chip can bind Cynomolgus /Rhesus macaque CD47, His Tag with an affinity constant of 63.27 nM as determined in SPR assay (Biacore T200).