For Research Use Only

SIRP Alpha/CD172a Recombinant monoclonal antibody, PBS Only

Catalog Number:83729-5-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
83729-5-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_080792

GeneID (NCBI):
140885

UNIPROT ID:
P78324

Full Name:
signal-regulatory protein alpha

Calculated MW:
55 kDa

Observed MW:
75-85 kDa

Purification Method:
Protein A purification

CloneNo.:
240789C6

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human

Background Information

SIRP Alpha, also known as CD172a, SHPS-1, and BIT, belongs to the SIRP family. SIRP Alpha is a transmembrane glycoprotein expressed explicitly on myeloid cells and provides a "do not eat me" signal after engaging with integrin-associated protein CD47 on tumor cells (PMID: 36419386). SIRP Alpha shows heterogeneity in molecular weight (~65-120 kDa) in various tissues due to differential glycosylation (PMID: 18051954).

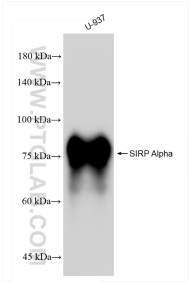
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

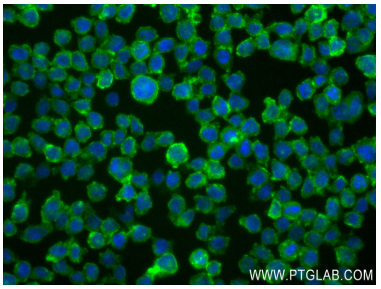
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

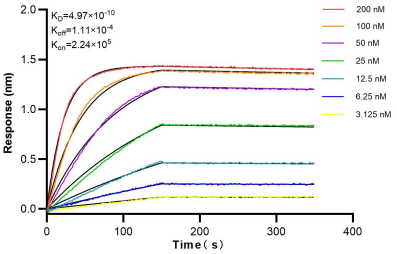
Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 83729-5-RR (SIRP Alpha/CD172a antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83729-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using SIRP Alpha/CD172a antibody (83729-5-RR, Clone: 240789C6) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83729-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83729-5-RR against Human SIRP Alpha were performed. The affinity constant is 0.497 nM.