

For Research Use Only

SIRP Alpha/CD172a Recombinant antibody

Catalog Number: 83729-5-RR



Basic Information

| | | |
|----------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| Catalog Number: 83729-5-RR | GenBank Accession Number: NM_080792 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 140885 | CloneNo.: 240789C6 |
| Source: Rabbit | UNIPROT ID: P78324 | Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500 |
| Isotype: IgG | Full Name: signal-regulatory protein alpha | |
| | Calculated MW: 55 kDa | |
| | Observed MW: 75-85 kDa | |

Applications

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|--------------------------------------------------|----------------------------------------------------------|
| Tested Applications: WB, IF/ICC, ELISA | Positive Controls: |
| Species Specificity: human | WB : U-937 cells, IF/ICC : THP-1 cells, |

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

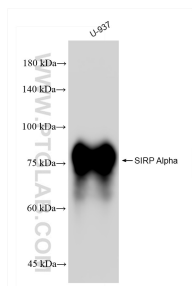
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

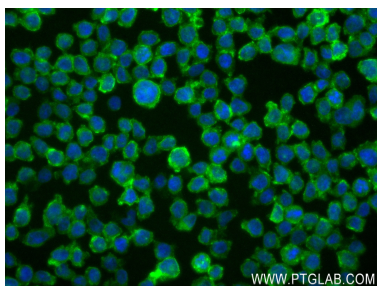
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

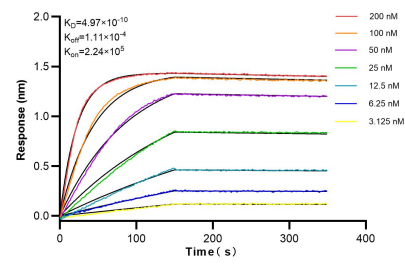
Selected Validation Data



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.



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).



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