

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: 1000 ug/ml	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

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

For technical support and original validation data for this product please contact:

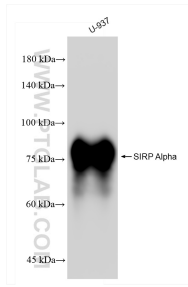
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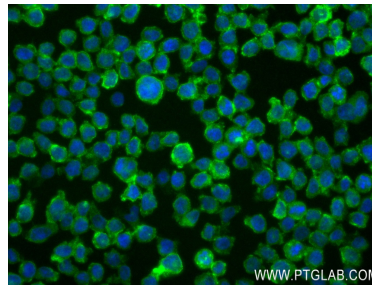
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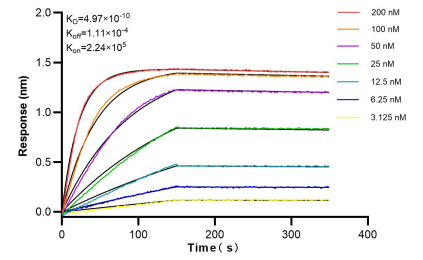
Selected Validation Data



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).



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