

SR-BI/SR-BII Polyclonal Antibody

Catalog NumberPA3-16805

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse
Class	Polyclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *1:400
Immunogen	Extracellular residues 230-380 of Scavenger Receptor-BI/BII expressed as two tandem copies in bacteria using the pET system.	Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL
		Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-Dependent
Form	Liquid	Neutralization (Neu)	Assay-Dependent
Concentration	Conc. Not Determined	Western Blot (WB)	1:1,000
Storage buffer	whole serum	Immunocytochemistry (ICC/IF)	1:50-1:1,000
Contains	0.02% sodium azide	Published Applications	
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles	Western Blot (WB)	See 1 publications below
		Immunohistochemistry (IHC)	See 1 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

High density lipoproteins (HDLs) play a critical role in cholesterol metabolism and their plasma concentrations are inversely correlated with risk for atherosclerosis. SR-BI and SR-BII (previously known as SR-BI.2) are the alternatively spliced products of a single gene. SR-BII and SR-BI are identical except for the encoded c-terminal cytoplasmic domain. Both SR-BI and SR-BII bind HDL and mediates selective uptake of HDL cholesteryl ester, but with SR-BII having an approximately 4-fold lower efficiency than SR-BI. SR-BI and SR-BII are expressed primarily in liver and non-placental steroidgenic tissues. Although the role of these scavenger receptors is not completely clear, SR-BII mRNA results from the alternative splicing of SR-BI precursor transcripts with both isoforms mediating selective transfer of lipid between HDL and cells. Therefore, the relative expression and functional activities of these two isoforms create a potential means of regulating selective lipid transfer between HDL and cells.

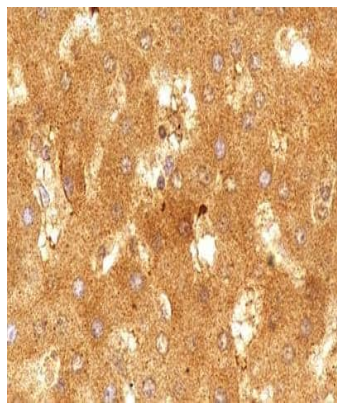
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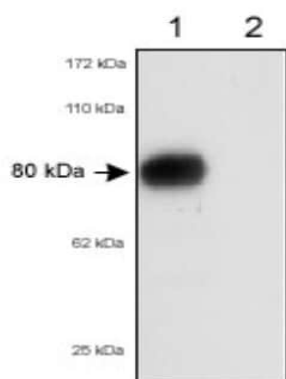
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## Product Images For SR-BI/SR-BII Polyclonal Antibody



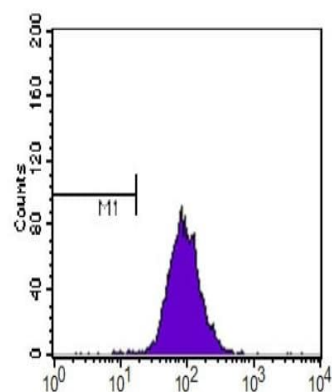
### SR-BI/SR-BII Antibody (PA3-16805) in IHC (P)

Immunohistochemical analysis of SR-BI/SR-BII in formalin-fixed paraffin-embedded tissue section of normal human liver. Samples were incubated in SR-BI/SR-BII polyclonal antibody (Product # PA3-16805) using a dilution of 5 µg/mL. Specific and expected granular membrane-cytoplasmic staining was observed in the hepatocytes. [40X Magnification].



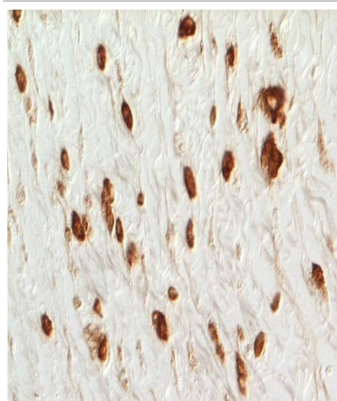
### SR-BI/SR-BII Antibody (PA3-16805) in WB

Western blot analysis of SR-BI/SR-BII in 80 µg total mouse liver lysates. Samples were incubated in SR-BI/SR-BII polyclonal antibody (Product # PA3-16805). Lane 1: wild-type mice; Lane 2: SR-BI deficient mice.



### SR-BI/SR-BII Antibody (PA3-16805) in Flow

Flow cytometry of SR-BI/SR-BII in NIH-3T3 cells. Samples were incubated in SR-BI/SR-BII polyclonal antibody (Product # PA3-16805) using a dilution of 1:400 followed by a Alexa Fluor 488 secondary (shown in purple). M1 is defined by unstained cells.



### SR-BI/SR-BII Antibody (PA3-16805) in IHC

SR-BI/II staining in mouse subcutaneous tissue post-injury. Tissues were fixed in Zinc-Tris buffer overnight, blocked with 2.5% rabbit serum, and stained with Scavenger Receptor B1/2 Polyclonal Antibody (Product # PA3-16805) at 1:1000 dilution followed by a biotinylated-goat anti-rabbit IgG secondary antibody, avidin-biotin reagent and DAB substrate. Data courtesy of the Innovators Program

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PubMed References For SR-BI/SR-BII Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
	PA3-16805 was used in Western Blotting to identify a key role for the splicing factor RNA-binding Fox protein 2 (RBFOX2) in maintaining cholesterol homeostasis in a lipogenic environment in the liver.
Mouse / 1:1000	Nature metabolism ( 2022; 4: 1812) <b>"Liver RBFOX2 regulates cholesterol homeostasis via Scarb1 alternative splicing in mice."</b> Author(s):Paterson HAB,Yu S,Artigas N,Prado MA,Haberman N,Wang YF,Jobbins AM,Pahita E,Mokochinski J,Hall Z, Guerin M,Paulo JA,Ng SS,Villarroya F,Rashid ST,Le Goff W,Lenhard B,Cebola I,Finley D,Gygi SP,Sibley CR,Vernia S PubMed Article URL: <a href="http://dx.doi.org/10.1038/s42255-022-00681-y">http://dx.doi.org/10.1038/s42255-022-00681-y</a>

1 Immunohistochemistry References

Species / Dilution	Summary
	PA3-16805 was used in immunohistochemistry to study the prolonged resistance of zwitterionic hydrogels to foreign-body reaction and capsule formation in a murine model
Mouse / 1:1000	Nature biotechnology ( 2013; 31: 553) <b>"Zwitterionic hydrogels implanted in mice resist the foreign-body reaction."</b> Author(s):Zhang L,Cao Z,Bai T,Carr L,Ella-Menye JR,Irvin C,Ratner BD,Jiang S PubMed Article URL: <a href="http://dx.doi.org/10.1038/nbt.2580">http://dx.doi.org/10.1038/nbt.2580</a>

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