

SERPINA12 Polyclonal Antibody

Catalog NumberPA5-30990

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Dilution *	
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 26 and 250 of Human SERPINA12	* 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.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.46 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: Jurkat, Raji. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Vaspin is a newly described adipocytokine expressed predominantly in visceral white adipose tissues. Structure analysis of vaspin predicts the presence of three beta-sheets, nine alpha-helices, and one central loop, which are distinctive structural features of Serpin family members. The serpins are irreversible ("suicidal") serine-protease inhibitors, characterized by having more than 30% sequence homology with alpha1-antitrypsin and a conserved tertiary structure, which contains an exposed reactive center loop that acts as a pseudo-substrate for the target proteinase. Members of this family play an important role in a number of fundamental biological processes, including blood coagulation, fibrinolysis, complement activation, angiogenesis, inflammation, and tumor suppression. In humans, the serpins represent approximately 2% of total serum proteins, of which 70% is alpha1-antitrypsin. Vaspin exhibits 40.2% sequence identity with alpha1-antitrypsin. Yet, its protease inhibitory activity is still unknown. Vaspin mRNA expression in visceral fat is positively correlated with BMI and percent of body fat. Administration of vaspin to obese mice improved glucose tolerance and insulin sensitivity, reflected by normalized blood glucose levels. It also led to the reversal of altered expression of diabetes-relevant adipocytokines, including leptin, adiponectin, resistin, and TNF-alpha. These findings suggest a potential clinical use for Vaspin in ameliorating certain aberrations seen in the diabetic/obesity metabolic syndrome.

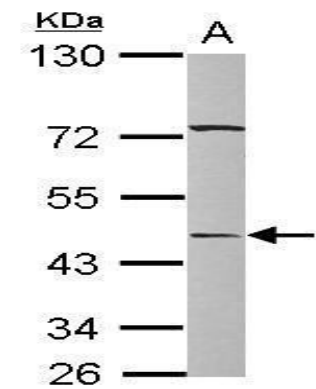
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Product Images For SERPINA12 Polyclonal Antibody



SERPINA12 Antibody (PA5-30990) in WB

Western Blot using SERPINA12 Polyclonal Antibody (Product # PA5-30990). Sample (30 µg of whole cell lysate). Lane A: Raji. 10% SDS PAGE. SERPINA12 Polyclonal Antibody (Product # PA5-30990) diluted at 1:1,000.

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