

Lactoferrin Polyclonal Antibody

Catalog Number PA1-40280

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Bovine
Host/Isotope	Rabbit / IgG	Published species	Bovine
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution * 1:50
Immunogen	Bovine lactoferrin.	Immunoprecipitation (IP)	1:50
Conjugate	Unconjugated	Western Blot (WB)	1:50
Form	Liquid	Published Applications	
Concentration	0.1 mg/mL	Western Blot (WB)	See 1 publications below
Purification	Protein A	* 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.	
Storage buffer	PBS with 0.1% BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C		

Product specific information

PA1-40280 detects Lactoferrin from bovine samples. PA1-40280 has been successfully used in immunoprecipitation, ELISA, and Western blot applications. The PA1-40280 imunogen is bovine lactoferrin.

Background/Target Information

Lactoferrin (LF) is an iron binding glycoprotein. LF consists of a single polypeptide chain (approximately 80 kDa) folded into two structurally homologous lobes, each of which can reversibly bind one ferric ion (Fe3+). LF is found in external fluids, including milk and mucosal secretions, and is a prominent component of secondary granuals of neutrophils. The protein demonstrates a broad spectrum of properties, including regulation of iron homeostasis, host defense against a broad range of microbial infections, anti-inflammatory activity, regulation of cellular growth and differentiation and protection against cancer development and metastasis. LTF acts as a major first line defense against microbial infections, partly due to its ability to efficiently bind to and hence remove Fe3+ from the environment, but studies have also shown that LTF possesses bactericidal properties and proteolytic activity, capable of cleaving arginine-rich sequences within microbial proteins. Three isoforms of LTF have been identified: LTF-alpha, LTF-beta and LTF-gamma and receptors for LTF are expressed in the gastrointestinal tract, by macrophages, lymphocytes, neutrophils and platelets and also by some bacteria.

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PubMed References For Lactoferrin Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Bovine / Not Cited	PA1-40280 was used in western blot to study the ability of the milk protein lactoferrin to bind to the free fatty acid activated form of the lipolysis-stimulated lipoprotein receptor and the significance for chylomicron clearance
	The FEBS journal (2012; 279: 4361)
	"Lactoferrin and its hydrolysate bind directly to the oleate-activated form of the lipolysis stimulated lipoprotein receptor." Author(s):Ahmad N,Girardet JM,Akbar S,Lanhers MC,Paris C,Yen FT,Corbier C PubMed Article URL: http://dx.doi.org/10.1111/febs.12026

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