

---

## Anti-Human Lactoferrin Purified

**Catalog Number:** 14-6604

**Also known as:** Lactotransferrin

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

---

### Product Information

**Contents:** Anti-Human Lactoferrin Purified  
**Catalog Number:** 14-6604  
**Clone:** B97  
**Concentration:** 0.5 mg/mL  
**Host/Isotype:** Mouse IgG1

REF



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

---

### Description

This B97 monoclonal antibody reacts with human lactoferrin. This 80-kDa glycoprotein is detectable in the kidney, lung, pancreas, gallbladder, prostate, seminal vesicle, gut, and liver. Lactoferrin is also present in mucosal secretions such as breast milk, tears, and saliva. In immune cells, high levels of lactoferrin can be found within the secondary granules of neutrophils, but not in lymphocytes or monocytes. A member of the transferrin family of proteins, lactoferrin binds two iron molecules to mediate its transport and storage. Lactoferrin plays an important role in host defense against pathogens and can regulate adaptive immune responses. Receptors for lactoferrin are present on the surface of lymphocytes, granulocytes, monocytes, mast cells, epithelial, and endothelial cells.

### Applications Reported

This B97 antibody has been reported for use in immunoblotting (WB) and immunohistochemical staining of formalin-fixed paraffin embedded tissue sections.

### Applications Tested

This B97 antibody has been tested using high pH antigen retrieval immunohistochemistry on formalin-fixed paraffin embedded human infiltrating ductal carcinoma and by western blot on reduced human saliva lysate. For immunohistochemistry, this antibody can be used at less than or equal to 10 µg/mL. For western blotting, the B97 antibody can be used at less than or equal to 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Actor JK, Hwang SA, Kruzel ML. Lactoferrin as a natural immune modulator. *Curr Pharm Des.* 2009;15(17):1956-73.

Siebert PD, Huang BC. Identification of an alternative form of human lactoferrin mRNA that is expressed differentially in normal tissues and tumor-derived cell lines. *Proc Natl Acad Sci U S A.* 1997 Mar 18;94(6):2198-203.

Butler TW, Grossi CE, Canessa A, Pistoia V, Barton JC. Immunoreactive lactoferrin in resting, activated, and neoplastic lymphocytes. *Leuk Res.* 1990;14(5):441-7.

Green I, Kirkpatrick CH, Dale DC. Lactoferrin--specific localization in the nuclei of human polymorphonuclear neutrophilic leukocytes. *Proc Soc Exp Biol Med.* 1971 Sep;137(4):1311-7.

### Related Products

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)

---

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) •  
[info@ebioscience.com](mailto:info@ebioscience.com)