

Anti-Lactoferrin antibody ab15811

★★★★★ [3 Abreviews](#) [20 References](#) [1 Image](#)

Overview

Product name	Anti-Lactoferrin antibody
Description	Rabbit polyclonal to Lactoferrin
Host species	Rabbit
Tested applications	Suitable for: IP, ICC, IHC-P, ELISA, WB
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) (Human).

General notes

Lactoferrin is an iron binding glycoprotein with an approximate molecular weight of 80 kDa. The protein has two iron binding domains each housing one Fe^{3+} and the synergistic CO_3^{2-} ion. The crystal structure form of human lactoferrin at 2.2Å resolution exhibits 5330 protein atoms, 2Fe^{2+} , 2CO_3^{2-} and 98 carbohydrate atoms. Lactoferrin is absorbed from intestine by apical side of the membrane and localized to the nuclei. Intravenous infusion of lactoferrin is protective against lethal doses of E coli and induce bacterimia by a mechanism that downregulates neutrophil TNF alfa secretion. Recombinant human lactoferrin (rhLF), expressed and extracted from rice seed, is being evaluated for use as a dietary supplement to treat iron deficiency and/or iron deficiency induced anemia. Lactoferrin has been shown to have a role in the immune system and in early development of the embryo. A specific receptor for lactoferrin binding has been implicated in the human fetal intestine. Early embryonic localisation of lactoferrin by IHC has suggested its presence in various tissues including intestinal epitheliuem, kiney, and various regions of the brain.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

Purity	Immunogen affinity purified
Purification notes	Affinity purified using immobilized antigenic proteins and pre adsorbed on an immobilized heterologous lactoferrin matrix to remove the cross reacting antibodies.
Primary antibody notes	Lactoferrin is an iron binding glycoprotein with an approximate molecular weight of 80 kDa. The protein has two iron binding domains each housing one Fe^{3+} and the synergistic CO_3^{2-} ion. The crystal structure form of human lactoferrin at 2.2Å resolution exhibits 5330 protein atoms, 2Fe^{2+} , 2CO_3^{2-} and 98 carbohydrate atoms. Lactoferrin is absorbed from intestine by apical side of the membrane and localized to the nuclei. Intravenous infusion of lactoferrin is protective against lethal doses of E coli and induce bacterimia by a mechanism that downregulates neutrophil TNF alfa secretion. Recombinant human lactoferrin (rhLF), expressed and extracted from rice seed, is being evaluated for use as a dietary supplement to treat iron deficiency and/or iron deficiency induced anemia. Lactoferrin has been shown to have a role in the immune system and in early development of the embryo. A specific receptor for lactoferrin binding has been implicated in the human fetal intestine. Early embryonic localisation of lactoferrin by IHC has suggested its presence in various tissues including intestinal epitheliuem, kiney, and various regions of the brain.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab15811 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

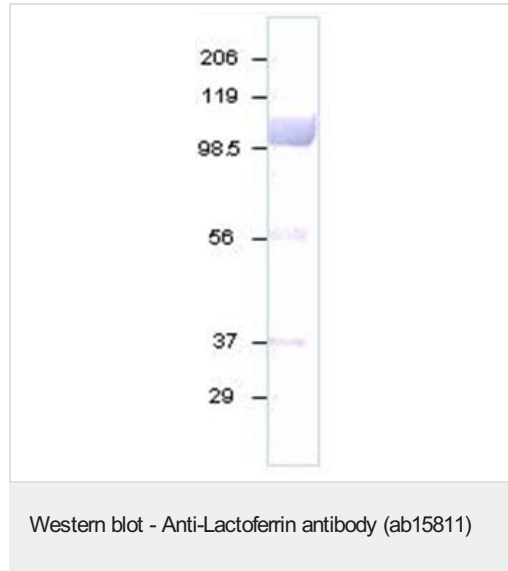
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	Use at an assay dependent concentration.
ELISA	★★★★★ (1)	Use at an assay dependent concentration. PubMed: 17244155
WB	★★★★★ (1)	1/500. Predicted molecular weight: 79 kDa.

Target

Function	<p>Transferrins are iron binding transport proteins which can bind two $\text{Fe}(3+)$ ions in association with the binding of an anion, usually bicarbonate.</p> <p>Lactotransferrin has antimicrobial activity which depends on the extracellular cation concentration. Lactoferroxins A, B and C have opioid antagonist activity. Lactoferroxin A shows preference for mu-receptors, while lactoferroxin B and C have somewhat higher degrees of preference for kappa-receptors than for mu-receptors.</p> <p>The lactotransferrin transferrin-like domain 1 functions as a serine protease of the peptidase S60 family that cuts arginine rich regions. This function contributes to the antimicrobial activity.</p>
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Sequence similarities	Belongs to the transferrin family. Contains 2 transferrin-like domains.
Cellular localization	Secreted.

Images



Anti-Lactoferrin antibody (ab15811) at 1/500 dilution + Human Lactoferrin

Predicted band size: 79 kDa

Observed band size: 99 kDa

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