

# Product Datasheet

## Ferritin Light Chain Antibody

### NBP1-06986

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-06986**

## Ferritin Light Chain Antibody

| Product Information |  |
|---------------------|--|
| Unit Size           | 0.1 mg   |
| Concentration       | 0.5 mg/ml  |
| Storage             | Store at -20C. Avoid freeze-thaw cycles.               |
| Clonality           | Polyclonal   |
| Preservative        | 0.02% Sodium Azide                                     |
| Isotype             | IgG  |
| Purity              | Immunogen affinity purified                            |
| Buffer              | Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA |

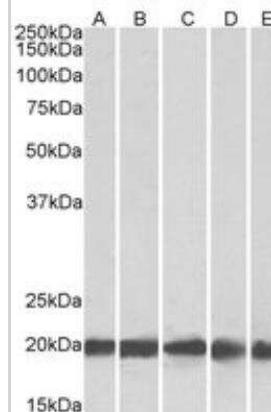
| Product Description |   |
|---------------------|---|
| Host                | Goat  |
| Gene ID             | 2512  |
| Gene Symbol         | FTL   |
| Species             | Human, Mouse, Rat   |
| Reactivity Notes    | Rat reactivity reported in the literature (PMID: 21922429)                                  |
| Immunogen           | Peptide with sequence C-GEYLFERLTLKHD corresponding to C-Terminus according to NP_000137.2. |

| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Immunohistochemistry, Peptide ELISA  |
| Recommended Dilutions       | Western Blot 0.3 - 1.0 ug/mL, Immunohistochemistry 4 - 6 ug/ml, Peptide ELISA<br>Detection limit 1:32000   |
| Application Notes           | Western blot: Approx. 20 kDa band observed in Human Brain (Cerebellum), Liver and Placenta lysates and approx. 22 kDa band observed in Mouse and Rat Brain lysates (calculated MW of 20.0 kDa according to NP_000137.2). |



## Images

Western Blot: Ferritin Light Chain Antibody [NBP1-06986] - Human Brain (Cerebellum) (A), Liver (B), Human Placenta (C) 22k Da in MBR (D), RBR (E) lysate (35 ug protein in RIPA buffer). Primary antibody at 0.3 ug/mL, 1 hr incubation. Detected by chemiluminescence.



Immunohistochemistry: Ferritin Light Chain Antibody [NBP1-06986] - Negative Control showing staining of paraffin embedded Human Spleen, with no primary antibody.



Immunohistochemistry: Ferritin Light Chain Antibody [NBP1-06986] - (4ug/ml) staining of paraffin embedded Human Spleen. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



## Publications

AL Fisher, V Sangkhae, K Balušíková, NJ Palaskas, T Ganz, E Nemeth Iron-dependent apoptosis causes embryotoxicity in inflamed and obese pregnancy *Nature Communications*, 2021-06-29;12(1):4026. 2021-06-29 [PMID: 34188052]

Fisher A, Wang C, Xu Y et al. Quantitative proteomics and RNA-sequencing of mouse liver endothelial cells identify novel regulators of BMP6 by iron *iScience* 2023-12-01 [PMID: 38125029]

Fisher AL, Srole DN, Palaskas NJ et al. Iron loading induces cholesterol synthesis and sensitizes endothelial cells to TNF $\alpha$ -mediated apoptosis *Journal of Biological Chemistry* 2021-10-01 [PMID: 34480898] (Western Blot)

Xiao X, Moschetta GA, Xu Y et al. Regulation of iron homeostasis by hepatocyte TFR1 requires HFE and contributes to hepcidin suppression in  $\beta$ -thalassemia *Blood* 2022-11-02 [PMID: 36322932] (WB, Mouse)

Sammarco MC, Ditch S, Banerjee A, Grabczyk E. Ferritin L and H subunits are differentially regulated on a post-transcriptional level. *J Biol Chem* 2008-02-22 [PMID: 18160403]

Nam H, Wang CY, Zhang L et al. ZIP14 and DMT1 in the liver, pancreas, and heart are differentially regulated by iron deficiency and overload: implications for tissue iron uptake in iron-related. *Haematologica* 2013-01-24 [PMID: 23349308] (WB, Human)

Gu J, Xu H, Han Y, Dai W, Hao W, Wang C, Gu N, Xu H, Cao J. The internalization pathway, metabolic fate and biological effect of superparamagnetic iron oxide nanoparticles in the macrophage-like RAW2647 cell. *Sci China Life Sci*;54(9):793-805. 2011-09-01 [PMID: 21922429] (WB, Rat)





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### Products Related to NBP1-06986

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|                 |  |
|-----------------|--|
| NBL1-10851      | Ferritin Light Chain Overexpression Lysate                             |
| HAF017          | Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| HAF109          | Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| NB410-28088-1mg | Goat IgG Isotype Control   |

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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