

# Product Datasheet

## FABP4/A-FABP Antibody - BSA Free NBP1-89218

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 6

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**NBP1-89218**

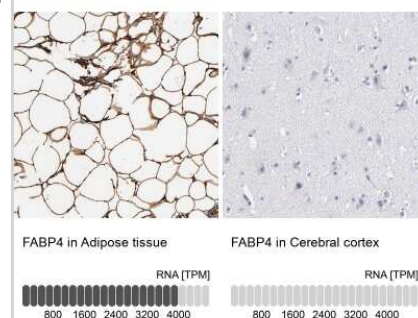
FABP4/A-FABP Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	2167
Gene Symbol	FABP4
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 31518157).
Marker	Adipocyte Differentiation Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DAFVGTWKLVSSENFDDYMKEVGVGFATRKVAGMAKPNMIISVNGDVITIKSES TFKNTAISFILGQEFDEVTADDRKVKSTITLDGGVLVHVQKWGKSTTIKRKRED DKLVVECVMKGVTSRVYE
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.  In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 18 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

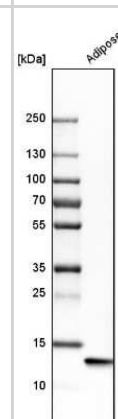


## Images

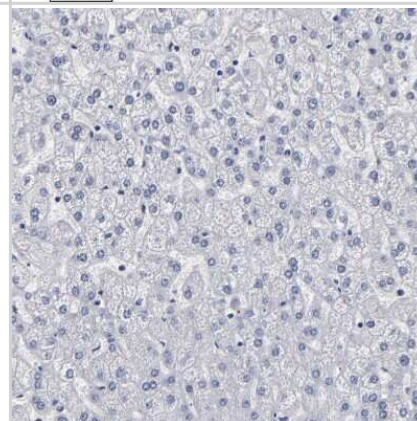
**Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]**  
 - Analysis in human adipose tissue and cerebral cortex tissues.  
 Corresponding FABP4 RNA-seq data are presented for the same tissues.



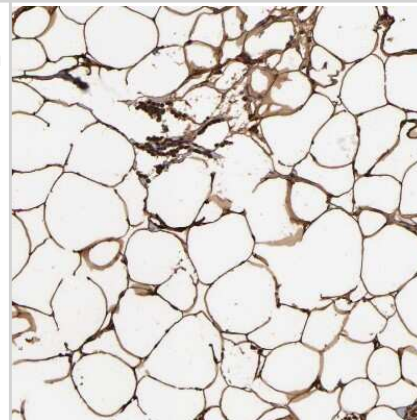
**Western Blot: FABP4/A-FABP Antibody [NBP1-89218]** - Analysis in human adipose tissue tissue.



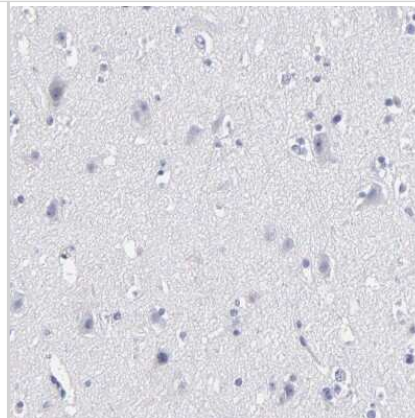
**Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]**  
 - Staining of human liver shows no cytoplasmic positivity in hepatocytes as expected.



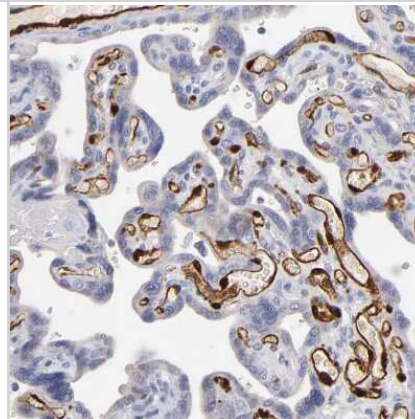
**Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]**  
 - Staining of human adipose tissue shows strong cytoplasmic positivity in adipocytes.



Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]  
 - Staining of human cerebral cortex shows no cytoplasmic positivity in neurons as expected.



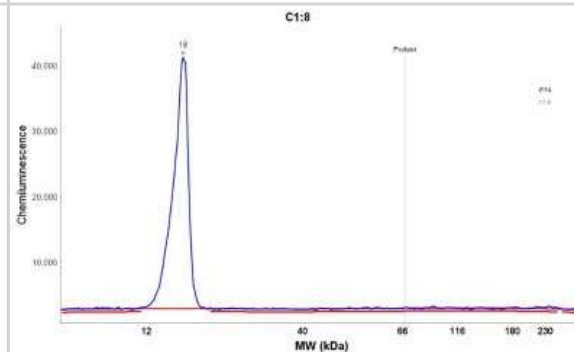
Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]  
 - Staining of human placenta shows strong cytoplasmic positivity in endothelial cells.



Simple Western: FABP4/A-FABP Antibody [NBP1-89218] - Simple Western lane view shows a specific band for FABP4 in 0.2 mg/ml of RT-4 (left) and U-251MG sp (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: FABP4/A-FABP Antibody [NBP1-89218] - Electropherogram image(s) of corresponding Simple Western lane view. FABP4/A-FABP antibody was used at 1:20 dilution on RT-4 and U-251MG sp lysates(s).



## Publications

DK Suh, WY Lee, WJ Yeo, BS Kyung, KW Jung, HK Seo, YS Lee, DW Suh A Novel Muscle Atrophy Mechanism: Myocyte Degeneration Due to Intracellular Iron Deprivation Cells, 2022-09-13;11(18):. 2022-09-13 [PMID: 36139428]

Lee YS, Kim JY, Kim KI et al. Effect of Fatty Acid-Binding Protein 4 Inhibition on Rotator Cuff Muscle Quality: Histological, Biomechanical, and Biomolecular Analysis Am J Sports Med 2019-09-13 [PMID: 31518157] (IF/IHC, Human, Rat)

Lee YS, Kim JY, Oh KS, Chung SW. Fatty acid-binding protein 4 regulates fatty infiltration after rotator cuff tear by hypoxia-inducible factor 1 in mice. J Cachexia Sarcopenia Muscle. 2017-04-05 [PMID: 28382782] (WB, Mouse)

Perisic L, Hedin E, Razuvaev A et al. Profiling of atherosclerotic lesions by gene and tissue microarrays reveals PCSK6 as a novel protease in unstable carotid atherosclerosis. Arterioscler Thromb Vasc Biol 2013-10-01 [PMID: 23908247]

Sohle J, Machuy N, Smailbegovic E et al. Identification of new genes involved in human adipogenesis and fat storage. PLoS One 2012-01-01 [PMID: 22384002]

Zhao SM, Ren LJ, Chen L et al. Differential expression of lipid metabolism related genes in porcine muscle tissue leading to different intramuscular fat deposition. Lipids 2009-11-01 [PMID: 19847466]





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### **Products Related to NBP1-89218**

NB820-59282	Human Adipose Visceral Whole Tissue Lysate (Adult Whole Diabetes)
NBP1-89218PEP	FABP4/A-FABP Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

### **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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