

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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit FABP4/A-FABP Antibody - BSA Free (NBP1-89218) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-FABP4/A-FABP Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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: DAFVGTWKLVSSENFDDYMKEVGVGFATRQVAGMAKPNMIISVNGDVITIKSES TFKNTEISFILGQEFDEVTADDRKVKSTITLDGGVLVHVQKWGKSTTIKRKRED DKLVVECVMKGVTSTRVYE

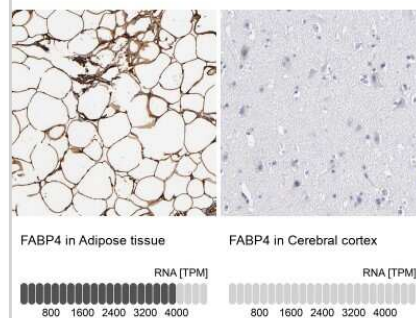
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:500 - 1:1000, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database 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.



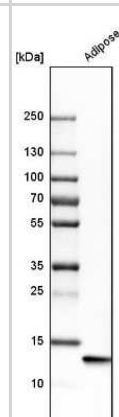
Images

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.

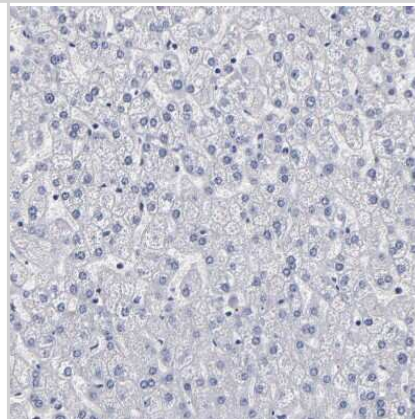


Western Blot: FABP4/A-FABP Antibody [NBP1-89218] - Analysis in human adipose tissue tissue.



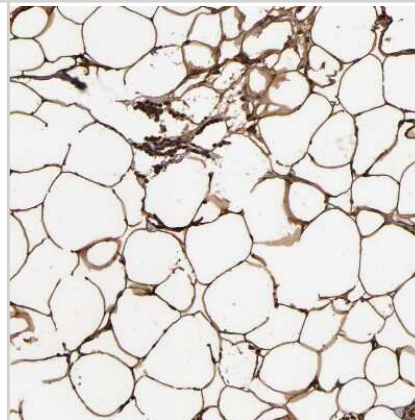
Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]

- Staining of human liver shows no cytoplasmic positivity in hepatocytes as expected.

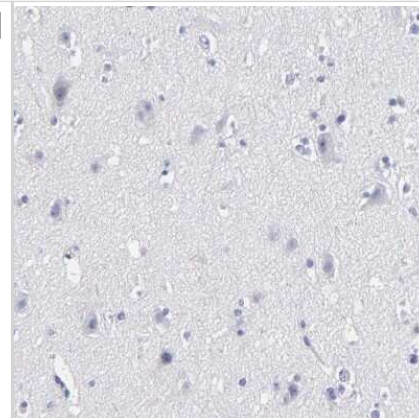


Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]

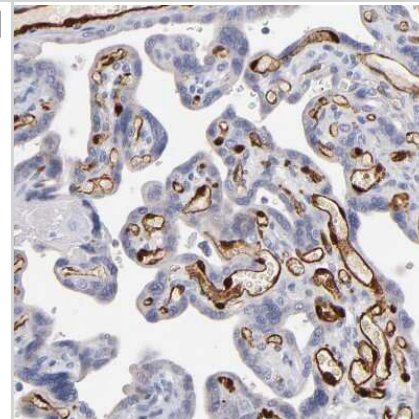
- Staining of human adipose tissue shows strong cytoplasmic positivity in adipocytes.



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



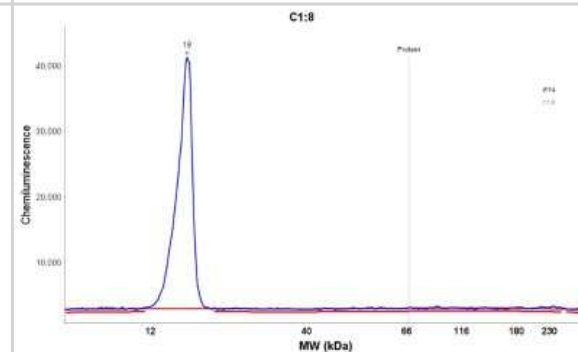
Immunohistochemistry-Paraffin: FABP4/A-FABP Antibody [NBP1-89218]
 - Staining of human placenta shows strong cytoplasmic positivity in endothelial cells.



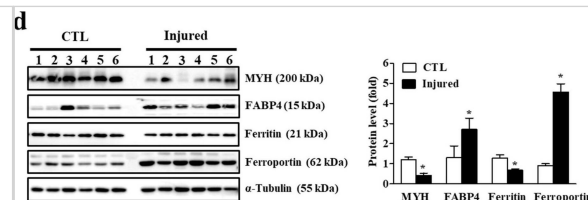
Simple Western: FABP4/A-FABP Antibody [NBP1-89218] - Simple Western lane view shows a specific band for FABP4 in 0.2 mg/ml of RT-4 (left) and U-251MG sp (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



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).



Correlation between reduced iron levels and increased ferroportin expression in injured muscles. (a) Histological difference between intact control (CTL) muscle and injured muscle by hematoxylin and eosin staining. Pictures are representative of the muscle tissue from pronator quadratus (hand) and rotator cuff (shoulder) muscles (n = 10 per group). Scale bar: 100 μ m. (b) Intracellular iron concentration between intact control and injured muscles (n = 30 per group). (c) mRNA expression of ferritin, hepcidin and ferroportin for intact control and injured muscles (n = 30 per group). (d) Western blot analyses for myosin heavy chain (MYH), fatty acid binding protein 4 (FABP4), ferritin, ferroportin and α -tubulin protein expression in intact control and injured muscles (n = 6 per group). A densitometric analysis of the Western blots is shown in the graph on the right. (e) Immunofluorescence (IF) microscopy images showing ferroportin expression. The blue signals indicate cell nuclei. Images are representative of independent tissue samples (n = 10 per group). Scale bar: 100 μ m. The negative control (secondary antibody only) for the IF showed no specific signal (data not shown). Ferroportin expression levels (green staining) were assessed with densitometry using Image J software (Version 1.8.0, National Institutes of Health, Bethesda, MD, USA), shown on the right. Data represent mean \pm SEM. * p < 0.05. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36139428>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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]

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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
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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