

# Product Datasheet

## FABP2/I-FABP Antibody NB100-59746

Unit Size: 0.1 mg

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

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**NB100-59746**

FABP2/I-FABP 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
Target Molecular Weight	15 kDa

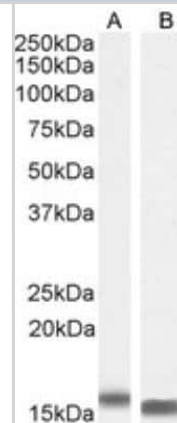
Product Description	
Host	Goat
Gene ID	2169
Gene Symbol	FABP2
Species	Human, Mouse, Fish
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 22790967). Fish reactivity reported in multiple pieces of scientific literature. Predicted cross-reactivity based on sequence identity: Rat, Canine, Porcine, Bovine.
Immunogen	Peptide with sequence C-EGVEAKRIFKKD corresponding to C-Terminus according to NP_000125.2.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.001- 0.003 ug/ml, Flow Cytometry 10ug/ml, Immunohistochemistry 2 - 3 ug/ml, Immunohistochemistry-Paraffin 2 - 3 ug/ml, Peptide ELISA Detection limit 1:64000
Application Notes	Western blot: Approx 15-16kDa band observed in Human Ileum and Duodenum lysates (calculated MW of 15.2kDa according to NP_000125.1). Recommended concentration: 0.001-0.003ug/ml. Primary incubation 1 hour at room temperature. IHC: In paraffin embedded Human Small Intestine shows strong staining of basement membrane and weaker staining of enterocytes. Recommended concentration: 2-3ug/ml.

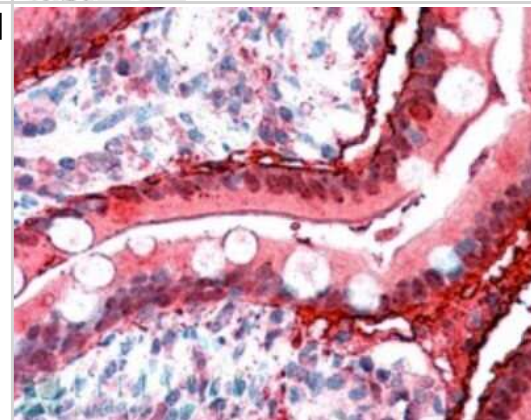


## Images

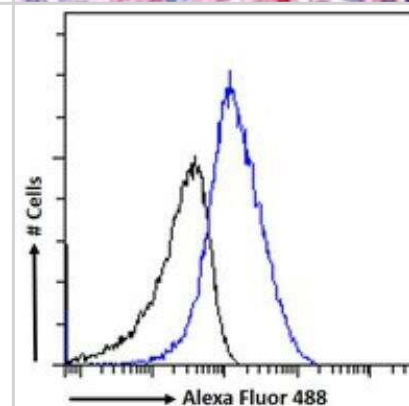
Western Blot: FABP2/I-FABP Antibody [NB100-59746] - (0.001ug/ml) staining of Human Duodenum (A) and (0.003ug/ml) Ileum (B) lysate (35ug protein in RIPA buffer). Detected by chemiluminescence



Immunohistochemistry-Paraffin: FABP2/I-FABP Antibody [NB100-59746] - (2.5ug/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Flow Cytometry: FABP2/I-FABP Antibody [NB100-59746] - Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



## Publications

Verdile N, Cardinaletti, G Faccenda F et al. Ectopic stem cell niches sustain rainbow trout (*Oncorhynchus mykiss*) intestine absorptive capacity when challenged with a plant protein-rich diet *Aquaculture* 2023-02-01 (Immunohistochemistry, Fish)

Verdile N, Pasquariello R, Brevini T, Gandolfi F The 3D Pattern of the Rainbow Trout (*Oncorhynchus mykiss*) Enterocytes and Intestinal Stem Cells *IJMS* 2020-12-02 [PMID: 33276531]

Yagishita Y, McCallum ML, Kensler TW, Wakabayashi N Constitutive Activation of Nrf2 in Mice Expands Enterogenesis in Small Intestine Through Negative Regulation of Math1 Cell *Mol Gastroenterol Hepatol* 2020-09-05 [PMID: 32896624] (Mouse)

Estensoro I, Ballester-Lozano G, Benedito-Palos L et al. Dietary Butyrate Helps to Restore the Intestinal Status of a Marine Teleost (*Sparus aurata*) Fed Extreme Diets Low in Fish Meal and Fish Oil. *PLoS ONE*. 2016-11-29 [PMID: 27898676] (IF/IHC, Fish)

Takakura Y, Yoshioka K, Umekawa T et al. Thr54 allele of the FABP2 gene affects resting metabolic rate and visceral obesity. *Diabetes Res Clin Pract* 2005-01-01 [PMID: 15620432]

Krogdahl A, Gajardo K, Kortner TM et al. Soya Saponins Induce Enteritis in Atlantic Salmon (*Salmo salar* L.). *J Agric Food Chem* 2015-04-22 [PMID: 25798699]

Cheng J, Krausz KW, Tanaka N, Gonzalez FJ. Chronic exposure to rifaximin causes hepatic steatosis in pregnane x receptor-humanized mice *Toxicol Sci* 2012-10-01 [PMID: 22790967] (WB, Mouse)

Venold FF, Penn MH, Thorsen J et al. Intestinal fatty acid binding protein (*fabp2*) in Atlantic salmon (*Salmo salar*): Localization and alteration of expression during development of diet induced enteritis *Comp Biochem Physiol A Mol Integr Physiol* 2012-09-20 [PMID: 23000355] (WB, IF/IHC, Fish)





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### **Products Related to NB100-59746**

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NBL1-10418	FABP2/I-FABP Overexpression Lysate
NB100-59746PEP	FABP2/I-FABP Antibody Blocking Peptide
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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