

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human FABP7/B-FABP in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) FABP1, rhFABP2, rhFABP3, rhFABP4, rhFABP5, rhFABP6, rhFABP8, rhFABP9 and recombinant mouse FABP9 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FABP7/B-FABP Met1-Ala132 Accession # O15540
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

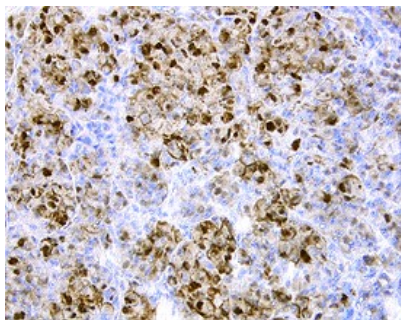
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human FABP7
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Simple Western</b>	50 µg/mL	See Below

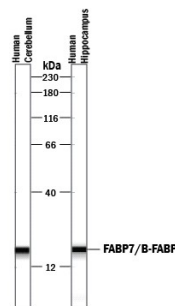
## DATA

### Immunohistochemistry



**FABP7 in Human Melanoma.** FABP7 was detected in immersion fixed paraffin-embedded sections of human melanoma using 5 µg/mL Goat Anti-Human FABP7 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3166) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

### Simple Western



**Detection of Human FABP7/B-FABP by Simple Western™.** Simple Western lane view shows lysates of human cerebellum tissue and human hippocampus tissue, loaded at 0.2 mg/mL. A specific band was detected for FABP7/B-FABP at approximately 18 kDa (as indicated) using 50 µg/mL of Goat Anti-Human FABP7/B-FABP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3166) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

FABP7, also known as (Brain) B-FABP, Brain lipid-binding protein (BLBP), and mammary-derived growth inhibitor-related (MRG), belongs to the family of intracellular lipid-binding proteins. It is involved in fatty acid uptake and intracellular transport and is important in brain development. Human and mouse FABP7 share 86% amino acid sequence identity.