

Store at
-20°C

FABP5 (D1A7T) Rabbit mAb



#39926

Support: +1-978-867-2388 (U.S.)
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orders@cellsignal.comEntrez-Gene ID #2171
UniProt ID #Q01469

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For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W, IHC-P
Endogenous**Species Cross-Reactivity***
H, M, R**Molecular Wt.**
15 kDa**Isotype**
Rabbit IgG**

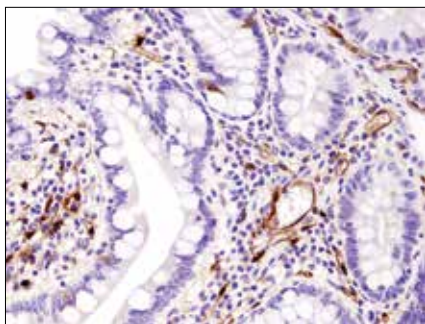
Background: Fatty acid binding proteins (FABPs) bind to fatty acids and other lipids to function as cytoplasmic lipid chaperones (1). They participate in the transport of fatty acids and other lipids to various cellular pathways (1). They are critical mediators of metabolic processes, and are increasingly being understood to play key roles in disease (2). FABP5 is known as the epidermal fatty acid binding protein as it was originally identified in studies on psoriasis (3) where it was shown to play a role in keratinocyte differentiation (4). It has since been found to play diverse roles in other normal physiological processes as well as in disease states (5).

Specificity/Sensitivity: FABP5 (D1A7T) recognizes endogenous levels of total FABP5 protein.

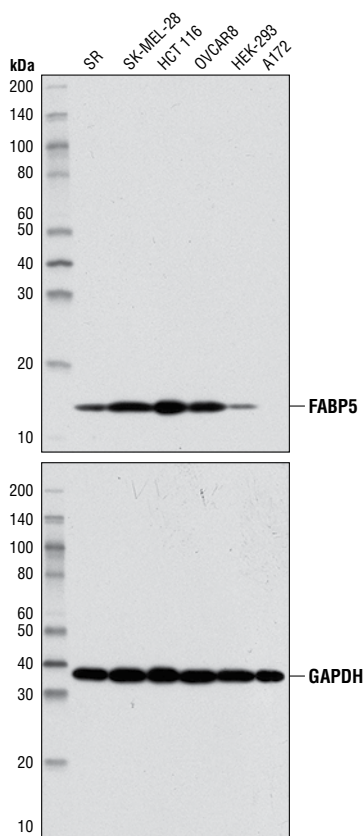
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human FABP5 protein.

Background References:

- (1) Haunerland, N.H. and Spener, F. (2004) *Prog Lipid Res* 43, 328–49.
- (2) Hotamisligil, G.S. and Bernlohr, D.A. (2015) *Nat Rev Endocrinol* 11, 592–605.
- (3) Madsen, P. et al. (1992) *J Invest Dermatol* 99, 299–305.
- (4) Siegenthaler, G. et al. (1994) *Biochem J* 302 (Pt 2), 363–71.
- (5) Thumser, A.E. et al. (2014) *Curr Opin Clin Nutr Metab Care* 17, 124–9.



Immunohistochemical analysis of paraffin-embedded human small intestine using FABP5 (D1A7T) Rabbit mAb.



Western blot analysis of extracts from various cell lines using FABP5 (D1A7T) Rabbit mAb (upper) and GAPDH (D16H11) XP® Rabbit mAb (#5174), (lower). As expected, A172 cells are negative for FABP5.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunohistochemistry (Paraffin)	1:1200†
Unmasking buffer: SignalStain® Citrate Unmasking Solution (10X) #14746	
Antibody diluent: SignalStain® Antibody Diluent #8112	
Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114	
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.	

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

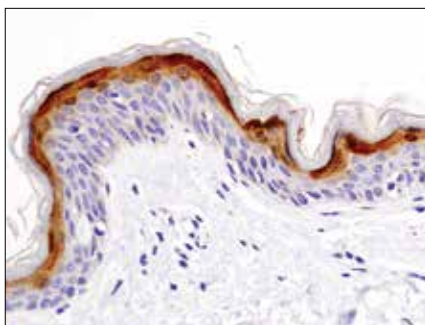
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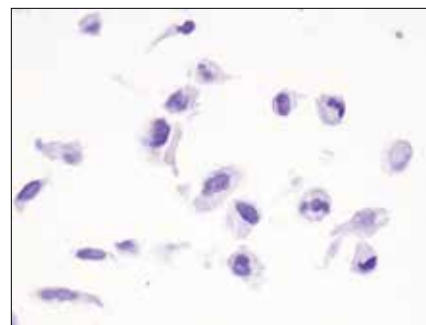
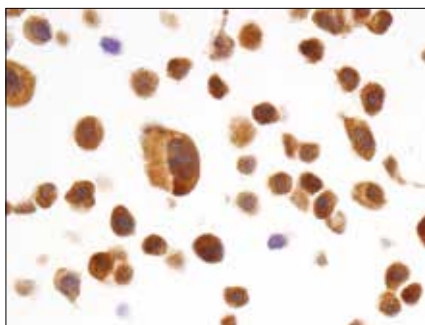
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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Immunohistochemical analysis of paraffin-embedded human skin using FABP5 (D1A7T) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded HCT 116 (left) and A172 (right) cell pellets using FABP5 (D1A7T) Rabbit mAb.

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