

Store at
-20°C

ABHD6 (D3C8N) Rabbit mAb

Cell Signaling
TECHNOLOGY®

#97573

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UniProt ID #Q9BV23

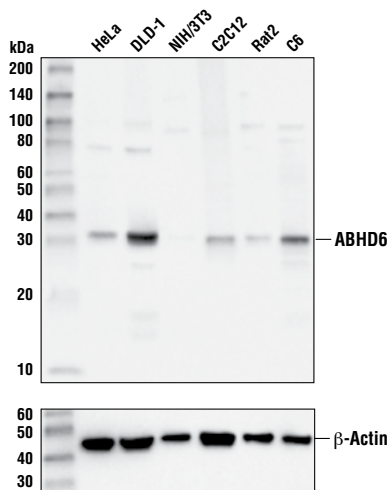
rev. 11/28/17

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

Background: ABHD6 (α/β -Hydrolase domain-containing 6) is a monoacylglycerol lipase, ubiquitously expressed with the highest expression in brown adipose tissue, small intestine, and brain (1). A high-fat diet upregulates ABHD6 mRNA expression in small intestine and liver, and ABHD6 knockdown protects against high-fat diet-induced obesity, hepatic steatosis, and systemic insulin resistance (2). In addition, it has been shown that ABHD6 is a negative modulator of glucose-stimulated insulin secretion (3). In the central nervous system, ABHD6 is expressed postsynaptically and degrades the endocannabinoid 2-arachidonoylglycerol (2-AG), an endogenous activator of cannabinoid receptors (4,5). Inhibitors of α/β -hydrolase domain 6 (ABHD6) have been actively pursued as a promising approach to treat inflammation, metabolic disorders, and epilepsy (2,6,7).

Specificity/Sensitivity: ABHD6 (D3C8N) Rabbit mAb recognizes endogenous levels of total ABHD6 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile121 of human ABHD6 protein.



Western blot analysis of total extracts from various cell lines using ABHD6 (D3C8N) Rabbit mAb (upper) or β -Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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
Immunoprecipitation 1:50

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

Background References:

- (1) Lord, C.C. et al. (2013) *Biochim Biophys Acta* 1831, 792-802.
- (2) Thomas, G. et al. (2013) *Cell Rep* 5, 508-20.
- (3) Zhao, S. et al. (2014) *Cell Metab* 19, 993-1007.
- (4) Blankman, J.L. et al. (2007) *Chem Biol* 14, 1347-56.
- (5) Marrs, W.R. et al. (2010) *Nat Neurosci* 13, 951-7.
- (6) Alhouayek, M. et al. (2013) *Proc Natl Acad Sci U S A* 110, 17558-63.
- (7) Naydenov, A.V. et al. (2014) *Neuron* 83, 361-71.

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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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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.