

ABHD6 (D3C8N) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	32	Rabbit IgG	#Q9BV23	57406

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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.

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.

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).

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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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