Revision 3

Store at -20C

#2942

FAAH1 (L14B8) Mouse mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M	Endogenous	60	Mouse IgG1	#O00519	2166

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	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

FAAH1 (L14B8) Mouse mAb detects endogenous levels of total FAAH1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val42 of human FAAH1 protein.

Background

Endogenous cannabinoids have been implicated in addictive behaviors and drug abuse (1). Fatty-acid amide hydrolase 1 (FAAH1) is a plasma membrane-bound hydrolase that converts oleamide to oleic acid (2). This hydrolase also converts the cannabinoid anandamide, the endogenous ligand for the CB1 cannabinoid receptor, to arachidonic acid, suggesting a role in fatty-acid amide inactivation (2). Mice lacking FAAH1 have significantly higher levels of anandamide in the brain and show decreased sensitivity to pain, further indicating a role for FAAH1 in the regulation of endocannabinoid signaling *in vivo* (3). FAAH1 null mice also demonstrate an increased preference for alcohol and an increased voluntary uptake of alcohol as compared to wild-type mice, indicating a role of FAAH1 in modulating addictive behaviors (1).

Background References

1. Blednov, Y.A. et al. (2007) *Neuropsychopharmacology* 32, 1570-82.
2. Cravatt, B.F. et al. (1996) *Nature* 384, 83-7.
3. Cravatt, B.F. et al. (2001) *Proc Natl Acad Sci USA* 98, 9371-6.

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 nonfat dry milk, 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

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