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FAAH2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5150b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q6GMR7
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26262
Calculated MW	58304
Antigen Region	409-438

Additional Information

Gene ID	158584
Other Names	Fatty-acid amide hydrolase 2, Amidase domain-containing protein, Anandamide amidohydrolase 2, Oleamide hydrolase 2, FAAH2, AMDD
Target/Specificity	This FAAH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 409-438 amino acids from the C-terminal region of human FAAH2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FAAH2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FAAH2
Synonyms	AMDD
Function	Catalyzes the hydrolysis of endogenous amidated lipids like the

sleep-inducing lipid oleamide ((9Z)-octadecenamide), the endocannabinoid anandamide (N-(5Z,8Z,11Z,14Z-eicosatetraenoyl)- ethanolamine), as well as other fatty amides, to their corresponding fatty acids, thereby regulating the signaling functions of these molecules (PubMed:17015445, PubMed:19926788). Hydrolyzes monounsaturated substrate anandamide preferentially as compared to polyunsaturated substrates.

Cellular Location Membrane; Single- pass membrane protein. Lipid droplet

Tissue Location Expressed in kidney, liver, lung, prostate, heart and ovary.

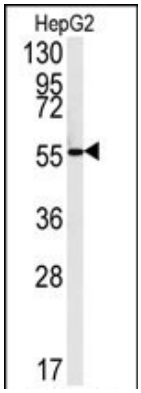
Background

FAAH2 encodes a fatty acid amide hydrolase that shares a conserved protein motif with the amidase signature family of enzymes. The encoded enzyme is able to catalyze the hydrolysis of a broad range of bioactive lipids, including those from the three main classes of fatty acid amides; N-acylethanolamines, fatty acid primary amides and N-acyl amino acids. This enzyme has a preference for monounsaturated acyl chains as a substrate.

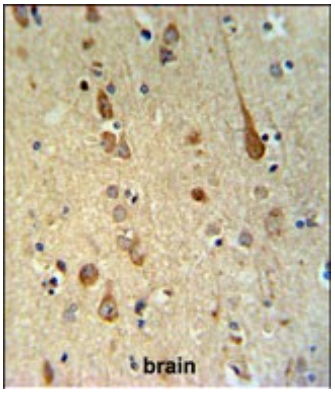
References

Kaczocha, M., et al. J. Biol. Chem. 285(4):2796-2806(2010)
Karbarz, M.J., et al. Anesth. Analg. 108(1):316-329(2009)
Wei, B.Q., et al. J. Biol. Chem. 281(48):36569-36578(2006)

Images

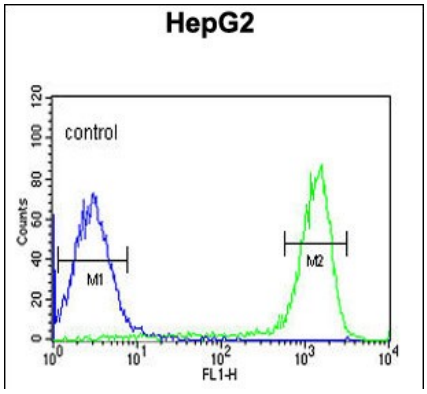


Western blot analysis of FAAH2 Antibody (C-term) (Cat. #AP5150b) in HepG2 cell line lysates (35ug/lane).FAAH2 (arrow) was detected using the purified Pab.



FAAH2 Antibody (C-term) (Cat. #AP5150b) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FAAH2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

FAAH2 Antibody (C-term) (Cat. #AP5150b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the



analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.