

# 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.

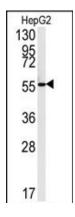
### **Background**

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.

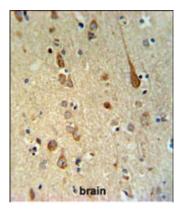
#### References

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**

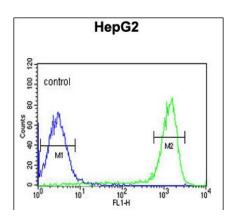


Western blot analysis of FAAH2 Antibody (C-term) (Cat. #AP5150b) in HepG2 cell line lysates (35ug/lane).FAAH2 (arrow) was detected using the purified Pab.



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'.