

FAAH1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58281

Specification

FAAH1 Polyclonal Antibody - Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O00519
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAAH1
Epitope Specificity	201-300/579
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endomembrane system; Single-pass membrane protein. Cytoplasm, cytoskeleton. Note=Seems to be attached to intracellular membranes and a portion of the cytoskeletal network. Belongs to the amidase family. Homodimer.
SIMILARITY	
SUBUNIT	
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

Degradates bioactive fatty acid amides like oleamide, the endogenous cannabinoid, anandamide and myristic amide to their corresponding acids, thereby serving to terminate the signaling functions of these molecules. Hydrolyzes polyunsaturated substrate anandamide preferentially as compared to monounsaturated substrates.

FAAH1 Polyclonal Antibody - Additional Information

Gene ID 2166

Other Names

Fatty-acid amide hydrolase 1, 3.5.1.99, Anandamide amidohydrolase 1, Fatty acid ester hydrolase, 3.1.1.-, Oleamide hydrolase 1, FAAH, FAAH1

Target/Specificity

Highly expressed in the brain, small intestine, pancreas, skeletal muscle and testis. Also expressed in the kidney, liver, lung, placenta and prostate.

Dilution

WB~~1:1000
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

FAAH1 Polyclonal Antibody - Protein Information

Name FAAH

Synonyms FAAH1

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, PubMed:9122178). Hydrolyzes polyunsaturated substrate anandamide preferentially as compared to monounsaturated substrates (PubMed:17015445, PubMed:9122178). It can also catalyze the hydrolysis of the endocannabinoid 2-arachidonoylglycerol (2-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-glycerol) (PubMed:21049984). FAAH cooperates with PM20D1 in the hydrolysis of amino acid-conjugated fatty acids such as N-fatty acyl glycine and N-fatty acyl-L-serine, thereby acting as a physiological regulator of specific subsets of intracellular, but not of extracellular, N-fatty acyl amino acids (By similarity).

Cellular Location

Endomembrane system; Single-pass membrane protein. Cytoplasm, cytoskeleton. Note=Seems to be attached to intracellular membranes and a portion of the cytoskeletal network

Tissue Location

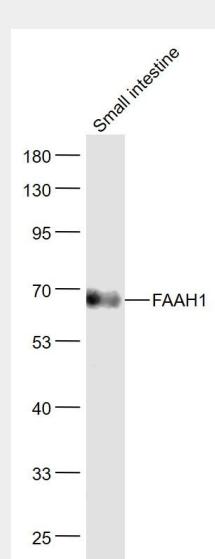
Highly expressed in the brain, small intestine, pancreas, skeletal muscle and testis. Also expressed in the kidney, liver, lung, placenta and prostate.

FAAH1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

FAAH1 Polyclonal Antibody - Images**Sample:**

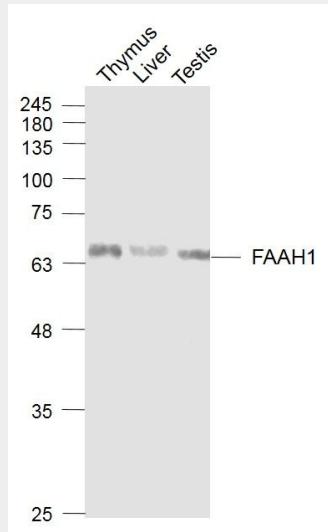
Small intestine (Mouse) Lysate at 40 ug

Primary: Anti-FAAH1 (bs-5104R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kD

Observed band size: 64 kD

**Sample:**

Thymus (Mouse) Lysate at 40 ug

Liver (Mouse) Lysate at 40 ug

Testis (Mouse) Lysate at 40 ug

Primary: Anti- FAAH1 (bs-5104R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 64 kD

Observed band size: 64 kD

