10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-FAAH1 Rabbit Monoclonal Antibody

Catalog # ABO15457

Specification

Anti-FAAH1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O00519
Host	**Rabbit**
Isotype	**IgG**
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-FAAH1 Rabbit Monoclonal Antibody . Tested in WB, IHC applications. This antibody reacts with Human, Mouse.

Anti-FAAH1 Rabbit Monoclonal 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

Calculated MW
63 kDa KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human FAAH1

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-FAAH1 Rabbit Monoclonal 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.

Anti-FAAH1 Rabbit Monoclonal 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 Cytomety
- Cell Culture

Anti-FAAH1 Rabbit Monoclonal Antibody - Images

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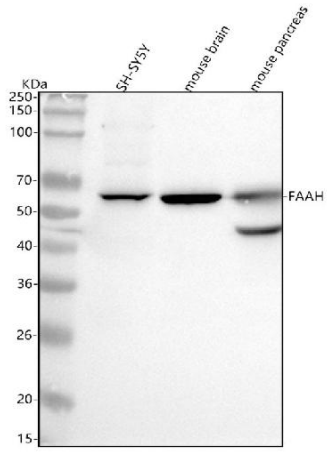

Figure 1. Western blot analysis of FAAH using anti-FAAH antibody (M00801-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SH-SY5Y whole cell lysates,
Lane 2: mouse brain tissue lysates,
Lane 3: mouse pancreas tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FAAH antigen affinity purified monoclonal antibody (Catalog # M00801-1) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FAAH at approximately 63 kDa. The expected band size for FAAH is at 63 kDa.