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Product no AS16 3972

FAAH | Fatty acid amide hydrolase

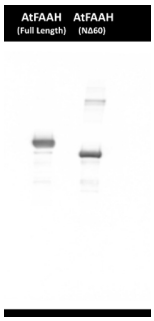
Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* FAAH protein sequence UniProt: Q7XJJ7, TAIR: At5g64440
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µg
Reconstitution	for reconstitution add 50µl, of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	65, 8 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Acorus calamus, Actinidia chinensis var. chinensis, Aquilegia coerulea, Chimonanthus praecox, Chloranthus japonicus, Cucumis melo, Dioscorea oppositifolia, Eucalyptus grandis, Fragaria vesca, Glycine soja, Gossypium raimondii, Houttuynia cordata, Magnolia denudata, Manihot esculenta, Morus notabilis, Nelumbo nucifera, Panicum miliaceum, Phaseolus vulgaris, Phoenix dactylifera, Platanus acerifolia, Populus trichocarpa, Ricinus communis, Sarcandra glabra, Setaria italica, Sorghum bicolor ,Theobroma cacao, Trachycarpus fortunei, Zea mays, Zostera marina, Vigna radiata, Vitis vinifera, Yucca filamentosa* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known

Application example



Recombinant AtFAAH was expressed in E.coli TOP10 cells from the pTrcHis2 plasmid. The recombinant His-tagged protein was purified from the cell lysate using metal-affinity chromatography (Ni-NTA Agarose beads), followed by size-exclusion FPLC. 1 µg of the purified AtFAAH in BTP buffer (50 mM Bis-Tris propane, pH 9.0, 100 mM NaCl, 0.03 % w/v DDM) was denatured by boiling in 2X SDS loading buffer with DTT at 95°C for 5 min; separated on SDS-PAGE (Bolt 4-12% Bis-Tris plus gels; Invitrogen); and blotted to PVDF membrane for 30 minutes using semi-dry transfer (Bio-RAD System). Blot was blocked with 5% milk ON/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 for 1h/RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed 3 times (5 min each) in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (Goat anti-Rabbit IgG, HRP conjugated) diluted to 1:10,000 for 1h/RT with agitation in TBS-T. The blot was washed as above and developed for 5 min with Clarity Western ECL Substrate (Bio-RAD). Exposure time was 5 seconds. N.B. * The full-length AtFAAH, the truncated AtFAAH (NΔ60), and the rat FAAH (negative control) recombinant proteins were all expressed and

purified using the same protocol. Also, 1 µg of each purified protein was used for the Western blot experiment. * The primary antibody solution: 20 µL anti-AtFAAH antibody + 2 mL of the blocking buffer + 18 mL TBS-T). * The secondary antibody solution: 2 µL secondary antibody + 2 mL of the blocking buffer + 18 mL TBS-T).

Courtesy of Dr Mina Aziz, Department of Biological Sciences, University of North Texas, USA