



AIP (aryl hydrocarbon receptor interacting protein, ARA9, FKBP16, FKBP37, XAP2, HBV-X associated protein, aryl hydrocarbon receptor-interacting protein)

Catalog number

A1059-87B

Supplier

United States Biological

Atrophen-1 (AIP1) contains a polyglutamine repeat, expansion of which is responsible for dentatorubral and pallidoluysian atrophy. The protein encoded by this gene interacts with atrophen-1. This encoded protein is characterized by two WW domains, a guanylate kinase-like domain, and multiple PDZ domains. It has structural similarity to the membrane-associated guanylate kinase homologue (MAGUK) family. This protein is brain specific, where it appears to be widely expressed in both neurons and glia.

Applications

Suitable for use in ELISA and Western Blot. Other applications not tested.

Recommended Dilutions

ELISA: 1:64,000

Western Blot: 0.02-0.06ug/ml

Optimal dilutions to be determined by the researcher.

Positive Control

Lysates of cell line NIH/3T3

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Peptide Blocking

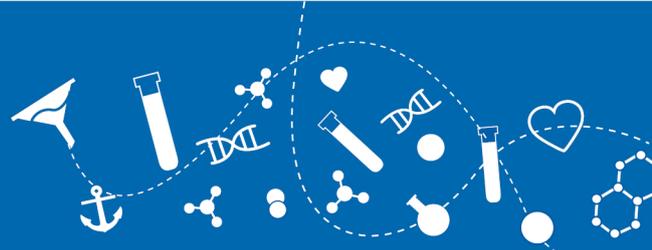
Corresponding peptide is available for Peptide Blocking studies. See A1059-87B-P. Antibody is typically 0.5mg/ml and peptide is supplied as a 100ul pellet. When peptide is reconstituted in 200ul water, the concentration would also be 0.5mg/ml. To start, the best ratio would be 1:1 (molar excess of peptide relative to antibody when identical volumes are mixed). Mix equal volumes of peptide and antibody at the required dilution and leave at ambient temperature. It is best is to have two identical blots to be incubated with equal amount of antibody, but one with the antibody pre-adsorbed to the peptide for 20min. Then incubate and develop the two blots in parallel.

Immunogen

Synthetic peptide, C-EARIRQKDEEDKAR, from the C-Terminus of human AIP.

Formulation

Supplied as a liquid in Tris, pH 7.3, 0.5% BSA, 0.02% sodium azide.



Purity

Purified by affinity chromatography.

Specificity

Recognizes human AIP at ~37kD. Species Crossreactivity: mouse. Species sequence homology: rat, canine.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

E WB

Crossreactivity

Hu Mo

Storage

-20°C

MW

37.7

Reference

Vierimaa O, Georgitsi M, Lehtonen R, Vahteristo P, Kokko A, Raitila A, Tuppurainen K, Ebeling TM, Salmela PI, Paschke R, Gundogdu S, De Menis E, Makinen MJ, Launonen V, Karhu A, Aaltonen LA. Pituitary adenoma predisposition caused by germline mutations in the AIP gene. *Science*. 2006 May 26;312(5777):1228-30.