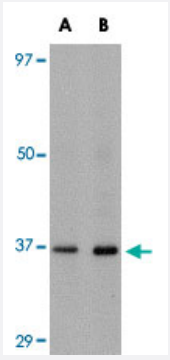
AIPL1 polyclonal antibody

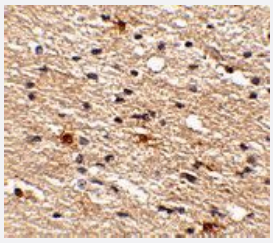
Catalog # PAB16583 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of AIPL1 in human brain tissue lysate with AIPL1 polyclonal antibody (Cat # PAB16583) at (A) 1 and (B) 2 ug/mL .



Immunohistochemistry

Immunohistochemistry of AIPL1 in human brain tissue with AIPL1 polyclonal antibody (Cat # PAB16583) at 2.5 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AIPL1.
Immunogen	A synthetic peptide corresponding to C-terminus 17 amino acids of human AIPL1.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

  Western blot analysis of AIPL1 in human brain tissue lysate with AIPL1 polyclonal antibody (Cat # PAB16583) at (A) 1 and (B) 2 ug/mL .

- Immunohistochemistry

  Immunohistochemistry of AIPL1 in human brain tissue with AIPL1 polyclonal antibody (Cat # PAB16583) at 2.5 ug/mL .

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AIPL1

Entrez GeneID	23746
Protein Accession#	NP_055151
Gene Name	AIPL1
Gene Alias	AIPL2, LCA4
Gene Description	aryl hydrocarbon receptor interacting protein-like 1
Omim ID	604392 604393
Gene Ontology	Hyperlink
Gene Summary	Leber congenital amaurosis (LCA) accounts for at least 5% of all inherited retinal disease and is t he most severe inherited retinopathy with the earliest age of onset. Individuals affected with LCA are diagnosed at birth or in the first few months of life with severely impaired vision or blindness, n ystagmus and an abnormal or flat electroretinogram. The photoreceptor/pineal -expressed gene, AIPL1, encoding aryl-hydrocarbon interacting protein-like 1, was mapped within the LCA4 candid ate region. The protein contains three tetratricopeptide motifs, consistent with nuclear transport or chaperone activity. AIPL1 mutations may cause approximately 20% of recessive LCA. [provided by RefSeq
Other Designations	-

Publication Reference

- The Leber congenital amaurosis protein AIPL1 functions as part of a chaperone heterocomplex.

  Hidalgo-de-Quintana J, Evans RJ, Cheetham ME, van der Spuy J.

  Investigative Ophthalmology & Visual Science 2008 Jul; 49(7):2878.

  Application: WB, Human, Y79 cells

- The inherited blindness associated protein AIPL1 interacts with the cell cycle regulator protein NUB1.

  Akey DT, Zhu X, Dyer M, Li A, Sorensen A, Blackshaw S, Fukuda-Kamitani T, Daiger SP, Craft CM, Kamitani T, Sohocki MM.

  Human Molecular Genetics 2002 Oct; 11(22):2723.

  Application: IF, IHC, IP, IP-WB, Human, Y79 retinoblastoma cells, Retina

- Mutations in a new photoreceptor-pineal gene on 17p cause Leber congenital amaurosis.

  Sohocki MM, Bowne SJ, Sullivan LS, Blackshaw S, Cepko CL, Payne AM, Bhattacharya SS, Khaliq S, Qasim Mehdi S, Birch DG, Harrison WR, Elder FF, Heckenlively JR, Daiger SP.

  Nature Genetics 2000 Jan; 24(1):79.

Disease

- Blindness
- Cataract
- Optic Atrophy
- Retinal Degeneration
- Retinal Diseases