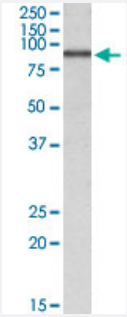
ALDH18A1 polyclonal antibody

Catalog # PAB19003 Size 100 ug

Applications



Western Blot (Cell lysate)

ALDH18A1 polyclonal antibody (Cat # PAB19003, 1 ug/mL) staining of MCF-7 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ALDH18A1.
Immunogen	A synthetic peptide corresponding to amino acids at C-terminus of humanALDH18A1.
Sequence	C-SEHGSLKYLH
Host	Goat
Theoretical MW (kDa)	85
Reactivity	Human
Specificity	This antibody is expected to recognize both reported isoforms (NP_002851.2; NP_001017423.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:8000) Western Blot (1-3 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In 0.5 mg/mL in Tris saline, pH7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	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

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Cell lysate)

  ALDH18A1 polyclonal antibody (Cat # PAB19003, 1 ug/mL) staining of MCF-7 lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Gene Info — ALDH18A1

Entrez GeneID	5832
Protein Accession#	NP_002851.2;NP_001017423.1
Gene Name	ALDH18A1
Gene Alias	GSAS, MGC117316, P5CS, PYCS
Gene Description	aldehyde dehydrogenase 18 family, member A1
Omim ID	138250
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- a nd NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-gluta myl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to d elta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and ar ginine. Mutations in this gene lead to hyperammonemia, hypoornithinemia, hypocitrullinemia, hypo argininemia and hypoprolinemia and may be associated with neurodegeneration, cataracts and c onnective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, h ave been described for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000020159|OTTHUMP00000020160|delta1-pyrroline-5-carboxlate synthetase|gluta mate gamma-semialdehyde synthetase|pyrroline-5-carboxlate synthetase|pyrroline-5-carboxylate synthetase|pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde sy

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Pathway

- Arginine and proline metabolism

Disease

- Alzheimer Disease
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Tobacco Use Disorder

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