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Product datasheet for CF501810

Adenylosuccinate Lyase (ADSL) Mouse Monoclonal Antibody [Clone ID: OTI2D10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D10
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ADSL (NP_000017) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54.7 kDa
Gene Name:	adenylosuccinate lyase
Database Link:	NP_000017 Entrez Gene 11564 MouseEntrez Gene 315150 RatEntrez Gene 474499 DogEntrez Gene 709259 MonkeyEntrez Gene 158 Human P30566

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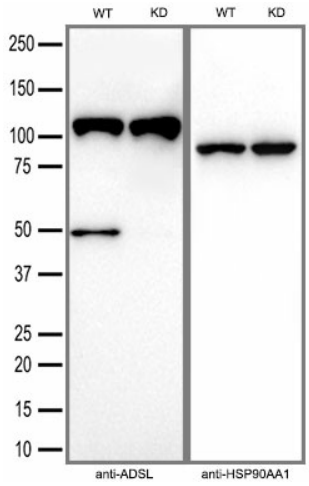
Background: Adenylsuccinate lyase is involved in both de novo synthesis of purines and formation of adenosine monophosphate from inosine monophosphate. It catalyzes two reactions in AMP biosynthesis: the removal of a fumarate from succinylaminoimidazole carboxamide (SAICA) ribotide to give aminoimidazole carboxamide ribotide (AICA) and removal of fumarate from adenylosuccinate to give AMP. Adenylosuccinase deficiency results in succinylpurinemic autism, psychomotor retardation, and , in some cases, growth retardation associated with muscle wasting and epilepsy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Synonyms: AMPS; ASASE; ASL

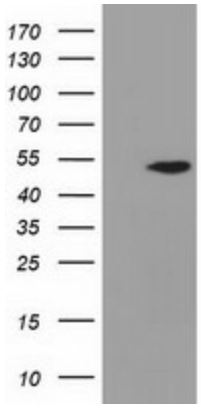
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

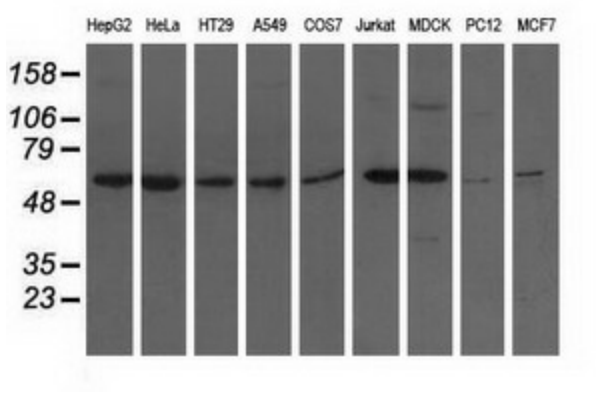
Product images:



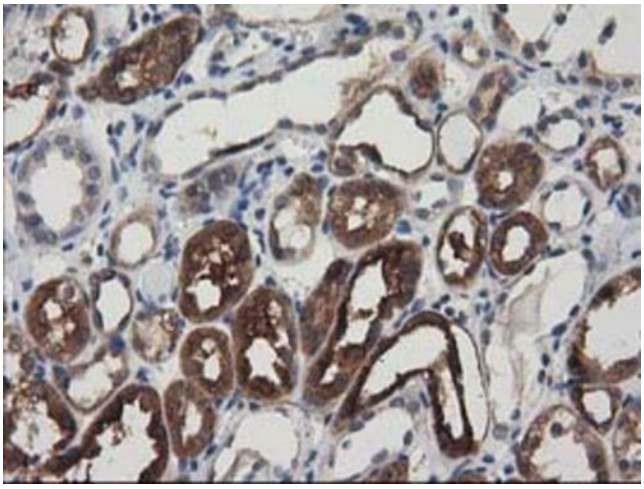
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HAP-1 cells (WT) and ADSL-Knockdown HAP-1 cells (KD) were separated by SDS-PAGE and immunoblotted with anti-ADSL monoclonal antibody [TA501810] (1:5000). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



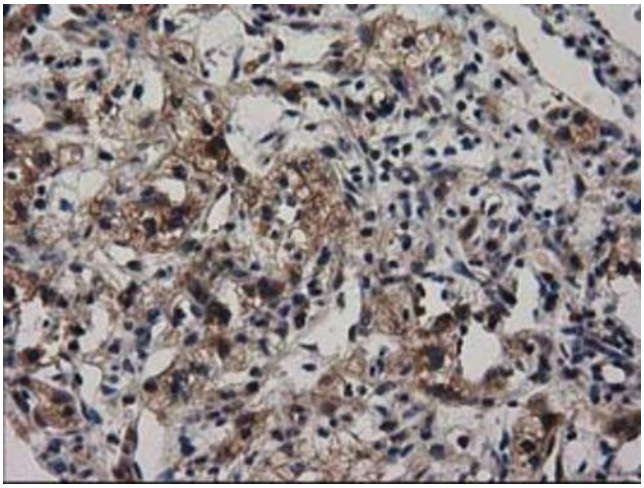
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADSL (Cat# [RC200524], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADSL(Cat# [TA501810]). Positive lysates [LY424970] (100ug) and [LC424970] (20ug) can be purchased separately from OriGene.



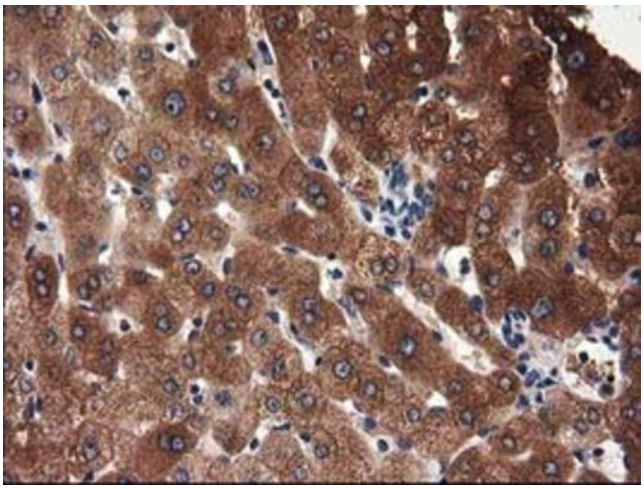
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ADSL monoclonal antibody.



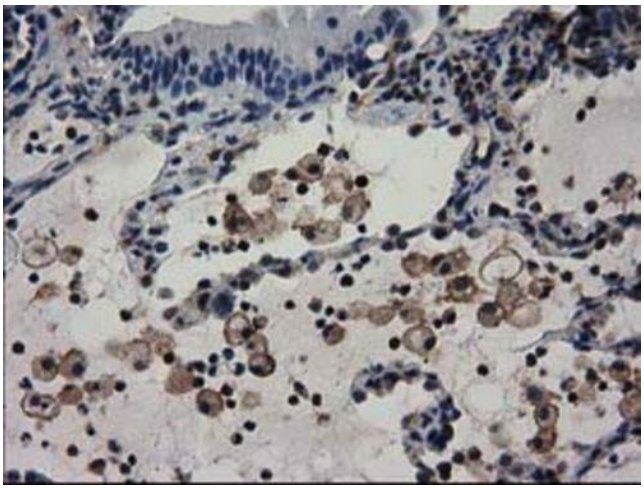
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



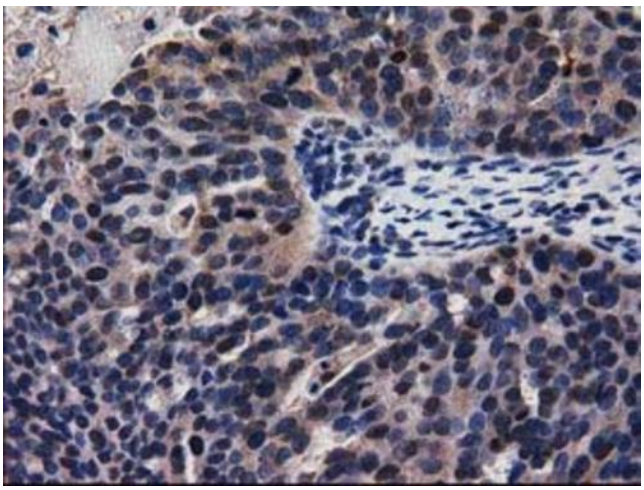
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



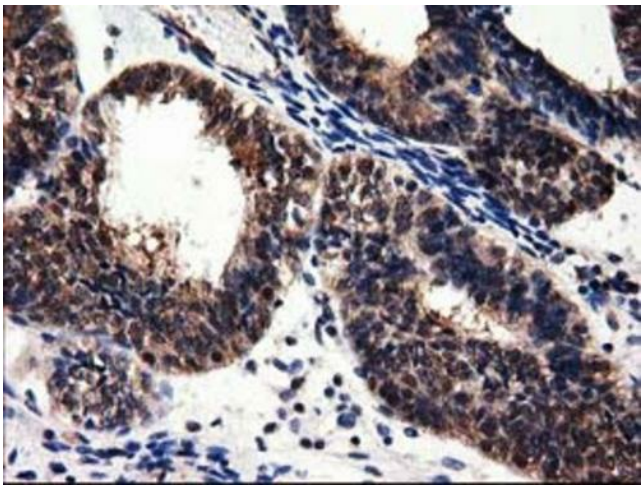
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



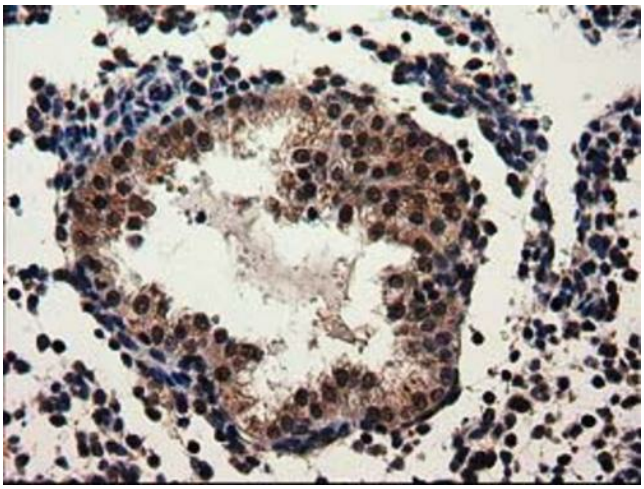
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



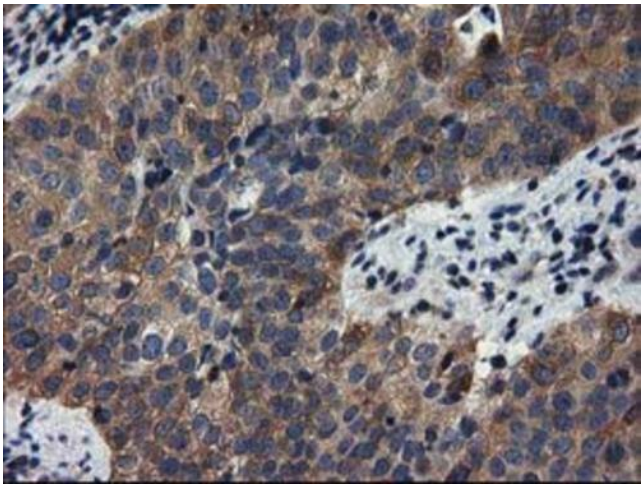
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



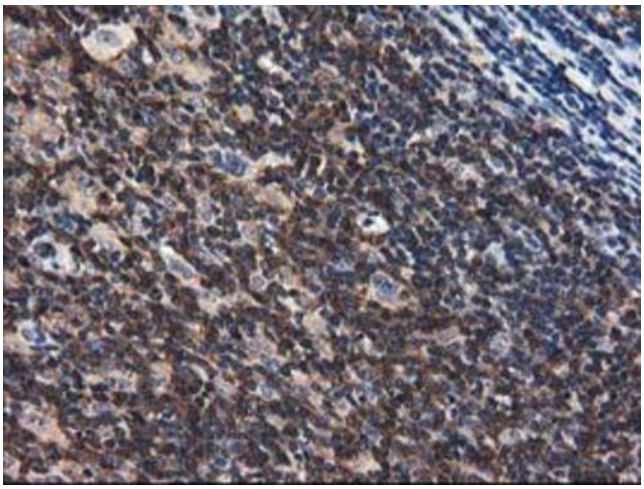
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



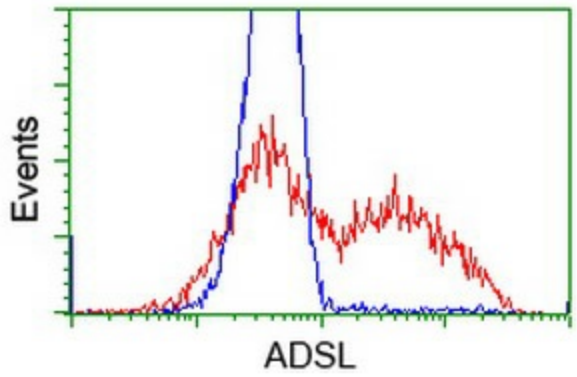
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-ADSL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC200524] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ADSL antibody ([TA501810]), and then analyzed by flow cytometry.