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Product datasheet for TA809216AM

ASS1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI12G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI12G1
Applications:	IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to residues near C-terminus of human ASS1 (NP_000041).
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46.3 kDa
Gene Name:	argininosuccinate synthase 1
Database Link:	NP_000041 Entrez Gene 11898 MouseEntrez Gene 25698 RatEntrez Gene 445 Human P00966
Background:	The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]

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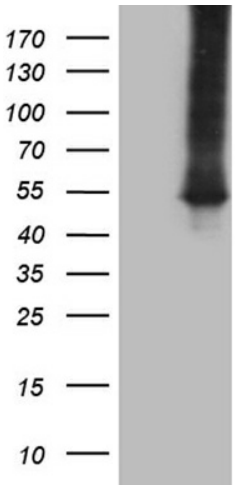
Synonyms: ASS; CTLN1

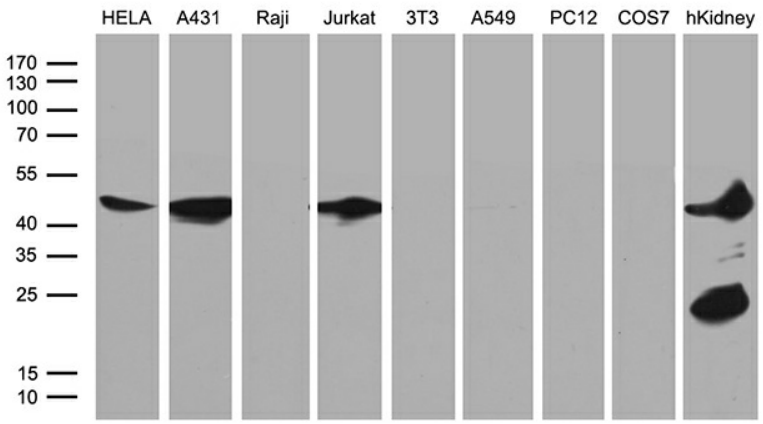
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways

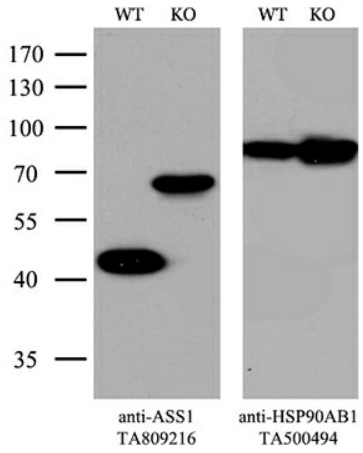
Product images:



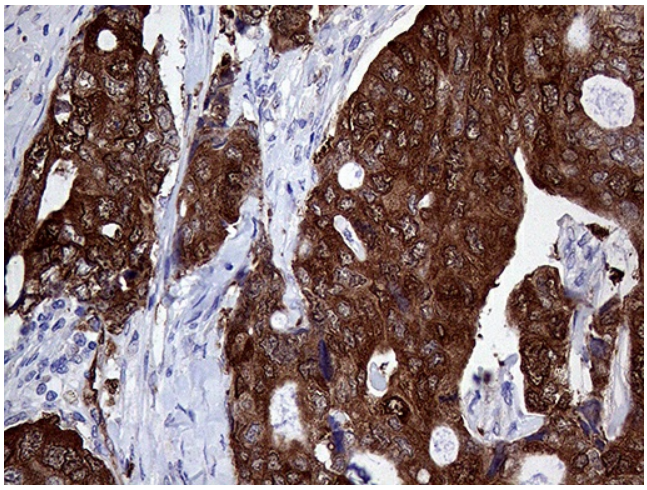
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ASS1 (Cat# [RC223189], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ASS1 (Cat# [TA809216])(1:2000). Positive lysates [LY424955] (100ug) and [LC424955] (20ug) can be purchased separately from OriGene.



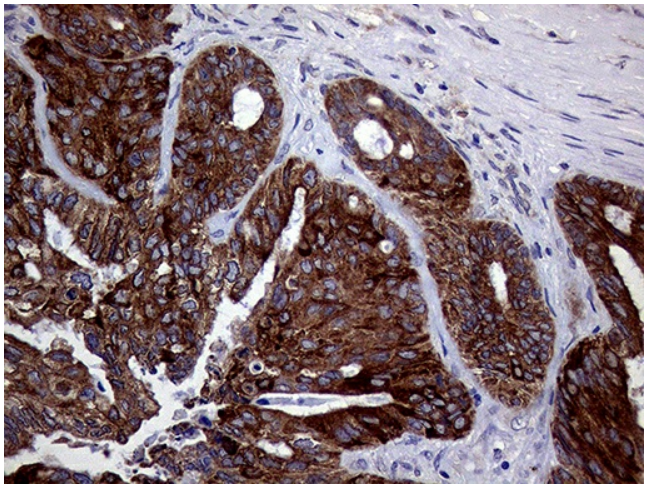
Western blot analysis of extracts (35ug) from 8 different cell lines and human kidney tissue lysate by using anti-ASS1 monoclonal antibody (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and ASS1-Knockout Hela cells (KO, Cat# [LC810016]) were separated by SDS-PAGE and immunoblotted with anti-ASS1 monoclonal antibody [TA809216]. Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control (1:500).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue tissue using anti-ASS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809216]) (1:2000)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ASS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809216]) (1:2000)