



Anti-ASS1 monoclonal antibody (DCABH-10647)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 ASS cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene.
Immunogen	A synthetic peptide of human ASS1 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	ASS1 argininosuccinate synthase 1 [Homo sapiens]
Official Symbol	ASS1
Synonyms	ASS1; argininosuccinate synthase 1; argininosuccinate synthetase , ASS; argininosuccinate synthase; CTLN1; citrulline-aspartate ligase; citrulline--aspartate ligase; argininosuccinate synthetase 1; ASS;
Entrez Gene ID	445
Protein Refseq	NP_000041
UniProt ID	P00966
Chromosome Location	9q34.1
Pathway	Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; argininosuccinate synthase activity; argininosuccinate synthase activity; ligase activity; nucleotide binding; protein binding; toxin binding;