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Product datasheet for TA812683M

CAD Mouse Monoclonal Antibody [Clone ID: OTI10A3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10A3
Applications:	WB
Recommended Dilution:	WB 1:250~500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 1918-2225 of human CAD (NP_004332) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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.
Gene Name:	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
Database Link:	NP_004332 Entrez Gene 24240 RatEntrez Gene 69719 MouseEntrez Gene 790 Human P27708

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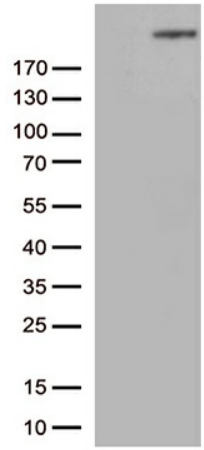
Background: The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis: carbamoylphosphate synthetase (CPS II), aspartate transcarbamoylase, and dihydroorotase. This protein is regulated by the mitogen-activated protein kinase (MAPK) cascade, which indicates a direct link between activation of the MAPK cascade and de novo biosynthesis of pyrimidine nucleotides. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Synonyms: CDG1Z; DEE50; EIEE50; GATD4

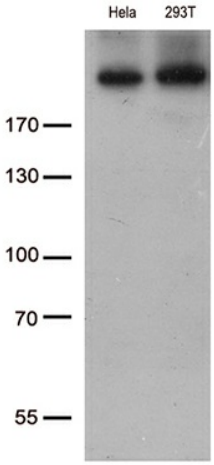
Protein Families: Druggable Genome

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

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CAD ([RC209469], 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-CAD (1:500).



Western blot analysis of extracts (35ug) from 2 cell lines lysates by using anti-CAD monoclonal antibody (1:250).