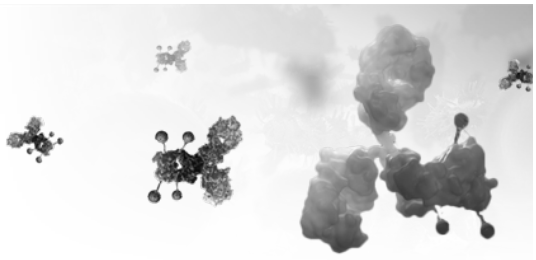

Mouse anti-Human DPYD monoclonal antibody, clone 8E5 (CABT-B10134)

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

PRODUCT INFORMATION

Immunogen	DPYD (NP_000101, 1 a.a. ~ 111 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	8E5
Conjugate	Unconjugated
Applications	WB,IF,sELISA,ELISA
Sequence Similarities	MAPVLSKDSADIESILALNPRTQTHATLCSTSAKKLDKKHWKRNPDKNCFNCEKLENNFD DIKHTTLGERGALREAMRCLKCADAPCQKSCPTNLDIKSFITSIANKNYY*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	dihydropyrimidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-uraciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
Keywords	DPYD; dihydropyrimidine dehydrogenase; DHP; DPD; DHPDHASE; dihydropyrimidine dehydrogenase [NADP(+)]; dihydrouracil dehydrogenase; dihydrothymine dehydrogenase;

GENE INFORMATION

Entrez Gene ID	1806
UniProt ID	Q12882
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pantothenate and CoA biosynthesis, organism-specific biosystem
Function	4 iron, 4 sulfur cluster binding; NADP binding; dihydroorotate oxidase activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydrogenase (NADP+) activity; dihydropyrimidine dehydrogenase (NADP+) activity; electron carrier activity; flavin adenine dinucleotide binding; metal ion binding; oxidoreductase activity; protein homodimerization activity; protein homodimerization activity

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