

DPYD Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant DPYD.****Catalog # AT1815a****Specification**

DPYD Antibody (monoclonal) (M01) - Product Information

Application	WB, IF, E
Primary Accession	Q12882
Other Accession	NM_000110
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	111401

DPYD Antibody (monoclonal) (M01) - Additional Information**Gene ID** 1806**Other Names**

Dihydropyrimidine dehydrogenase [NADP(+)], DHPDHase, DPD, Dihydrothymine dehydrogenase, Dihydrouracil dehydrogenase, DPYD

Target/Specificity

DPYD (NP_000101, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

DPYD Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

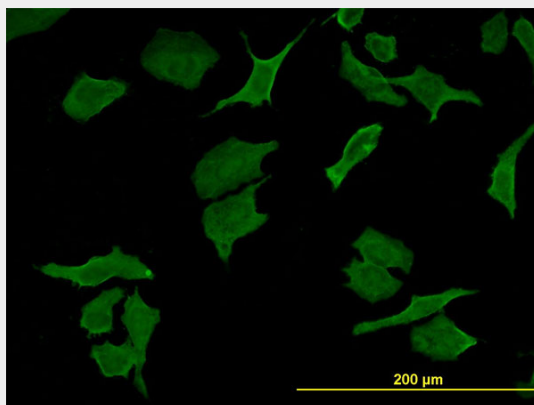
DPYD Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

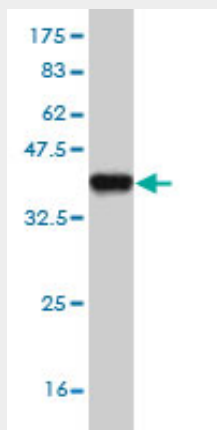
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

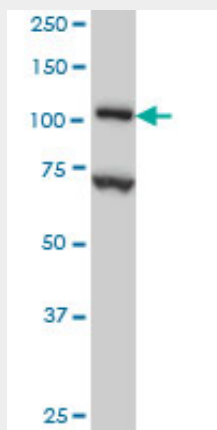
DPYD Antibody (monoclonal) (M01) - Images



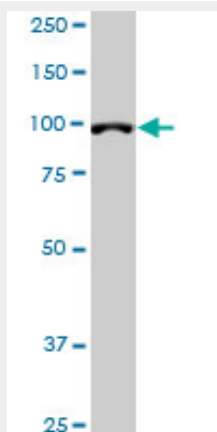
Immunofluorescence of monoclonal antibody to DPYD on HeLa cell. [antibody concentration 10 ug/ml]



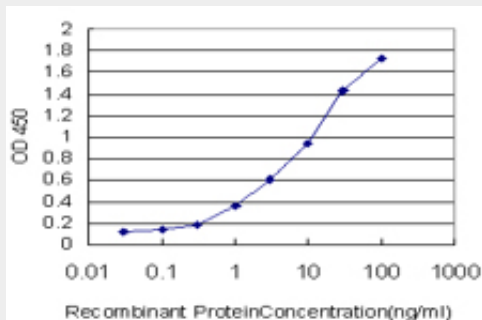
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



DPYD monoclonal antibody (M01), clone 7D4 Western Blot analysis of DPYD expression in HeLa (Cat # AT1815a)



DPYD monoclonal antibody (M01), clone 7D4. Western Blot analysis of DPYD expression in HeLa S3 NE (Cat # AT1815a)



Detection limit for recombinant GST tagged DPYD is approximately 0.1ng/ml as a capture antibody.

DPYD Antibody (monoclonal) (M01) - Background

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 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.

DPYD Antibody (monoclonal) (M01) - References

Variants in the dihydropyrimidine dehydrogenase, methylenetetrahydrofolate reductase and thymidylate synthase genes predict early toxicity of 5-fluorouracil in colorectal cancer patients. Kristensen MH, et al. J Int Med Res, 2010 May-Jun. PMID 20819423. Genetic polymorphisms associated with 5-Fluorouracil-induced neurotoxicity. Kim SR, et al. Chemotherapy, 2010. PMID 20714149. Value of gene polymorphisms as markers of 5-FU therapy response in stage III colon carcinoma: a pilot study. Fari?a-Sarasqueta A, et al. Cancer Chemother Pharmacol, 2010 Jul 28. PMID 20665215. Absence of large intragenic rearrangements in the DPYD gene in a large cohort of colorectal cancer patients treated with 5-FU-based chemotherapy. Par? L, et al. Br J Clin Pharmacol, 2010 Aug. PMID 20653680. [Correlation between clinicopathological factors and enzymatic activity of orotate phosphoribosyl transferase (OPRT), dihydropyrimidine dehydrogenase (DPD) in esophageal cancer] Takemura M, et al. Gan To Kagaku Ryoho, 2010 Jul. PMID 20647710.