

## DPYD Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DPYD. Catalog # AT1815a

### **Specification**

# DPYD Antibody (monoclonal) (M01) - Product Information

**Application** IF, WB, E **Primary Accession** 012882 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.  $\sim$  110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### **Dilution**

WB~~1:500~1000

#### **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

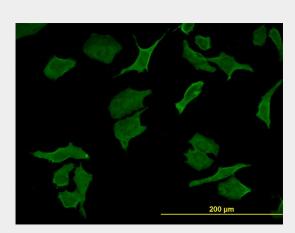
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

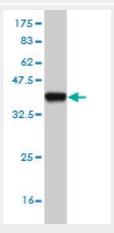


- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

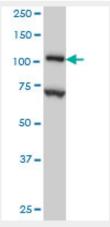
# DPYD Antibody (monoclonal) (M01) - Images



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



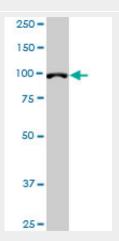
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa).



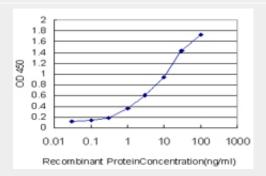
DPYD monoclonal antibody (M01), clone 7D4 Western Blot analysis of DPYD expression in HeLa (







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.