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# Recombinant Anti-DPD Rabbit mAb

Catalog # AP95350

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, FC, IF/IC |
| **Primary Accession** | Q12882 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Monoclonal |
| **Calculated MW** | 111401 |

## Additional Information

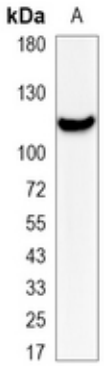
| | |
|---|---|
| **Gene ID** | 1806 |
| **Other Names** | Dihydropyrimidine dehydrogenase [NADP(+)]; DHPDHase; DPD; Dihydrothymine dehydrogenase; Dihydrouracil dehydrogenase |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within human DPD protein. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A |
| **Format** | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

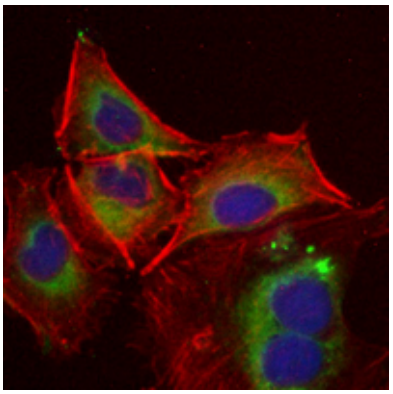
| | |
|---|---|
| **Name** | DPYD ( HGNC:3012) |
| **Function** | Catalyzes the reduction of uracil and thymine in the initial step of reductive pyrimidine catabolism, a pathway that yields beta- alanine from uracil and beta-aminoisobutyrate from thymine (PubMed:1512248). Also capable of degrading the chemotherapeutic drug 5-fluorouracil (PubMed:1512248). |
| **Cellular Location** | Cytoplasm, cytosol {ECO:0000250\|UniProtKB:O89000} |
| **Tissue Location** | Found in most tissues with greatest activity found in liver and peripheral blood mononuclear cells |

## Images

Western blot analysis of DPD expression in HeLa (A)




whole cell lysates. (Predicted band size: 111 kD; Observed band size: 111 kD)



Immunofluorescent analysis of DPD staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.