

## Recombinant DPY30 domain containing 2/DYDC2 Monoclonal Antibody

catalog number: **AN300445P**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

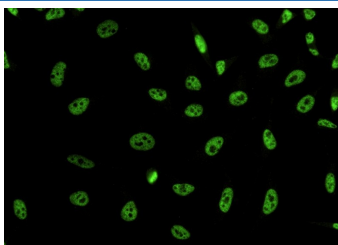
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human DPY30 domain containing 2/DYDC2 Protein
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	2D6
<b>Purification</b>	Protein A
<b>Buffer</b>	0.2 µm filtered solution in PBS

### Applications Recommended Dilution

<b>ICC/IF</b>	1:20-1:100
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### Data



Immunofluorescence analysis of Human DYDC2 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human DYDC2 monoclonal antibody (1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to nucleus.

### Preparation & Storage

<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Ice bag

### Background

DPY30 domain containing 2 belongs to the dpy-30 family. Dumpy-30 family members act as determinants of male fertility and interaction partners of metal-responsive transcription factor 1 (MTF-1) in Drosophila. MTF-1 plays a key role in transition metal detoxification and homeostasis. It binds to metal response elements (MREs). Two candidate dMTF-1 interactors are related to the small regulatory protein Dumpy-30 (Dpy-30) of the worm *C. elegans*. Dpy-30 is the founding member of a protein family involved in chromatin modifications, notably histone methylation. Mutants affect mating type in yeast and male mating in *C. elegans*. As part of the MLL1/MLL complex, DPY30 domain containing 2 is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. DPY30 domain containing 2 may also play an indirect or direct role in endosomal transport.

### For Research Use Only