

## Anti-DYDC2 Antibody (9D885)

## Product Details

Ig Type:	Mouse IgG2b
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9D885
Purification:	Protein A

## Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human DPY30 domain containing 2/DYDC2 protein (TMPY-02957)
Antigen Species:	Human
Synonyms:	DPY30 domain containing 2

## Research 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.

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