

For Research Use Only

# CoraLite® Plus 488-conjugated DOHH Monoclonal antibody

Catalog Number: CL488-68151



## Basic Information

Catalog Number: CL488-68151	GenBank Accession Number: BC002817	Purification Method: Protein G purification
Concentration: 1000 ug/ml	GeneID (NCBI): 83475	CloneNo.: 1H5H7
Source: Mouse	UNIPROT ID: Q9BU89	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: deoxyhypusine hydroxylase/monooxygenase	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG13041	Calculated MW: 33 kDa	
	Observed MW: 30-35 kDa	

## Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : LNCaP cells,
Species Specificity: human, mouse, rat	

## Background Information

Deoxyhypusine hydroxylase (DOHH) is the enzyme catalyzing the second step in the post-translational synthesis of hypusine [N<sup>ε</sup>-(4-amino-2-hydroxybutyl)lysine] in the eukaryotic initiation factor 5A (eIF5A). DOHH has been reported to mediate several crucial cellular functions, including cellular proliferation, differentiation and apoptosis. Moreover, previous studies have established that DOHH is highly involved in several essential biological processes driving human diseases including cancer growth, malarial drug resistance, and HIV-1 replication. In particular, the DOHH/eIF5A signaling pathway was revealed to mediate the ability of nerve growth factor to enhance neuronal growth and survival, highlighting the importance of DOHH in neuroprotection (PMID: 35007708, PMID: 16371467, PMID: 22908221, PMID: 19706422).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

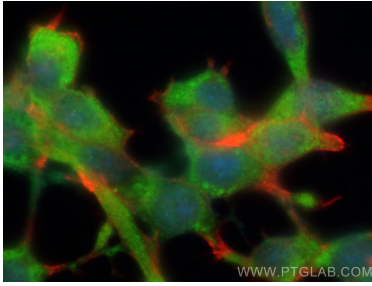
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed LNCaP cells using CoraLite® Plus 488 DOHH antibody (CL488-68151, Clone: 1H5H7 ) at dilution of 1:200, CL594-Phalloidin (red).