

For Research Use Only

# DOHH Monoclonal antibody, PBS Only

Catalog Number: 68151-1-PBS



## Basic Information

<b>Catalog Number:</b> 68151-1-PBS	<b>GenBank Accession Number:</b> BC002817	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 83475	<b>CloneNo.:</b> 1H5H7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9BU89	
<b>Isotype:</b> IgG1	<b>Full Name:</b> deoxyhypusine hydroxylase/monooxygenase	
<b>Immunogen Catalog Number:</b> AG13041	<b>Calculated MW:</b> 33 kDa	
	<b>Observed MW:</b> 30-35 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

Deoxyhypusine hydroxylase (DOHH) is the enzyme catalyzing the second step in the post-translational synthesis of hypusine [Nε-(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

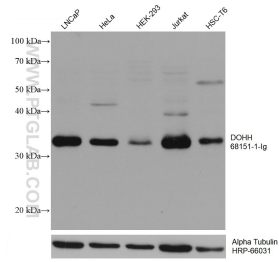
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

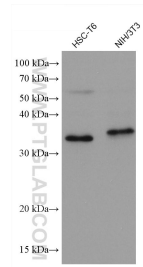
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

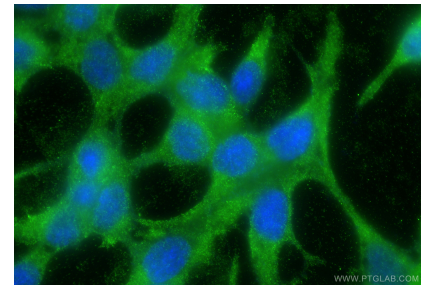
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68151-1-Ig (DOHH antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 68151-1-PBS in a different storage buffer formulation.



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Immunofluorescent analysis of (-20°C Ethanol) fixed LNCaP cells using DOHH antibody (68151-1-Ig, Clone: 1H5H7) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68151-1-PBS in a different storage buffer formulation.