

For Research Use Only

# DOHH Monoclonal antibody

Catalog Number: 68151-1-Ig



## Basic Information

<b>Catalog Number:</b> 68151-1-Ig	<b>GenBank Accession Number:</b> BC002817	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 83475	<b>CloneNo.:</b> 1H5H7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9BU89	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:400-1:1600
<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

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> LNCaP cells, HSC-T6 cells, HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells
	<b>IF/ICC :</b> LNCaP cells,

## 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

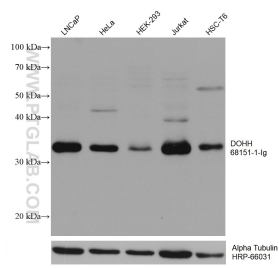
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

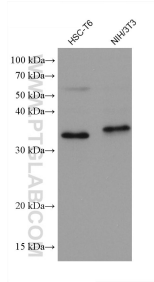
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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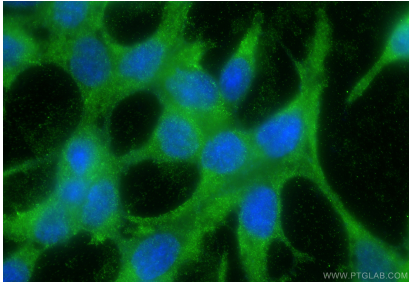
## Selected Validation Data



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.



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.



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).