

DOHH Monoclonal antibody

Catalog Number: 68151-1-Ig

Basic Information

Catalog Number:

68151-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG13041

GenBank Accession Number:

BC002817

GeneID (NCBI):

83475

UNIPROT ID:

Q9BU89

Full Name:deoxyhypusine
hydroxylase/monooxygenase**Calculated MW:**

33 kDa

Observed MW:

30-35 kDa

Purification Method:

Protein G purification

CloneNo.:

1H5H7

Recommended Dilutions:

WB 1:5000-1:50000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : LNCaP cells, HSC-T6 cells, HeLa cells, HEK-293 cells, Jurkat cells, NIH/3T3 cells

IF/ICC : LNCaP cells,

Background Information

Deoxyhypusine hydroxylase (DOHH) is the enzyme catalyzing the second step in the post-translational synthesis of hypusine [N^ε-(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:

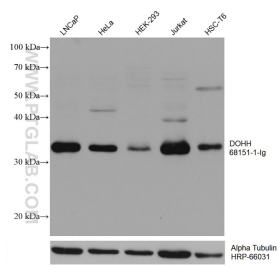
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

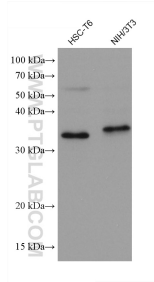
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

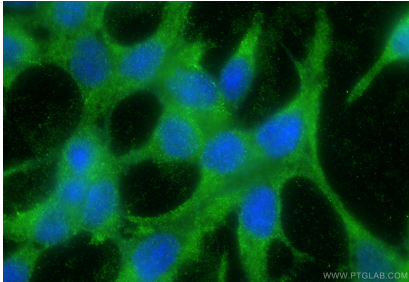
Selected Validation Data



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.



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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).