CoraLite® Plus 488-conjugated DOHH Monoclonal antibody

Catalog Number:CL488-68151

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-68151

Size:
100ul , Concentration: 1000 ug/ml by
Nanodrop;

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:
IF/ICC 1:50-1:500

**Excitation/Emission maxima
wavelengths:**
493 nm / 522 nm

Applications

Tested Applications:
IF/ICC

Species Specificity:
human, mouse, rat

Positive Controls:
IF/ICC : 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).
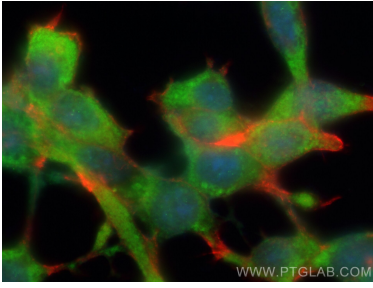
Storage

Storage:
Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

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).