

CoraLite® Plus 488-conjugated NSE Monoclonal antibody

Catalog Number: **CL488-66150**

Basic Information

Catalog Number:

CL488-66150

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG19106

GenBank Accession Number:

BC002745

GeneID (NCBI):

2026

UNIPROT ID:

P09104

Full Name:

enolase 2 (gamma, neuronal)

Calculated MW:

47 kDa

Observed MW:

47 kDa

Purification Method:

Protein G purification

CloneNo.:

6F8G3

Recommended Dilutions:

IF 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P,FC

Species Specificity:

human, mouse, rat, pig

Positive Controls:

IF : mouse brain tissue,

Background Information

NSE, also named as ENO2, belongs to the enolase family. Enolases are cytoplasmic glycolytic enzymes that may be involved in differentiation. The enolase has three isoenzymes, alpha, beta and gamma. The alpha form is expressed in most tissues, whereas the beta form is expressed in muscle tissue. The gamma enolase (ENO2), a homodimer, is primarily localized in neurons and neuroendocrine cells and is a cancer diagnostic marker for brain tumors (PMID:7520111). ENO2 plays a role in the glycolysis-related energy pathway and might be involved in higher metabolic activity during the day than at night, at least in part. And this antibody is conjugated with CL488, Ex/Em 488 nm/515 nm.

Storage

Storage:

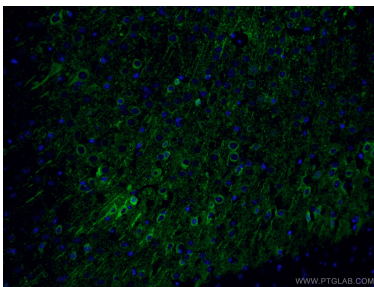
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

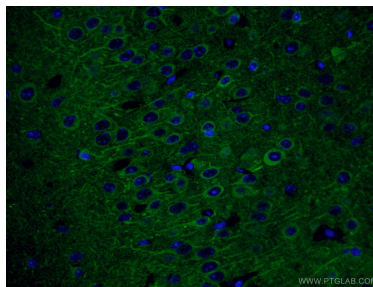
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

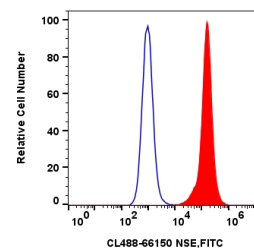
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL488-66150 (NSE antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL488-66150 (NSE antibody) at dilution of 1:50.



Neuronal cells derived from human dental pulp stem cells were fixed in 70% ethanol and blocked in 0.1% BSA in Staining Buffer, then stained with CoraLite® Plus 488-conjugated NSE Monoclonal Antibody (CL488-66150) (red) or unstained (blue). Image credit: @stemcell_art on Instagram