

For Research Use Only

# CoraLite® Plus 488-conjugated PABPN1 Monoclonal antibody

Catalog Number: CL488-66807

Featured Product



## Basic Information

Catalog Number:

CL488-66807

Size:

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

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG27470

GenBank Accession Number:

BC010939

GeneID (NCBI):

8106

UNIPROT ID:

Q86U42

Full Name:

poly(A) binding protein, nuclear 1

Calculated MW:

33 kDa

Observed MW:

50-56 kDa

Purification Method:

Protein G purification

CloneNo.:

3C12E12

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF/ICC : MCF-7 cells,

## Background Information

Poly(A) Binding Protein Nuclear 1(PABPN1) is one of the isoforms of poly(A) binding protein (PABP) that locating to the nucleus in eukaryotic cells. And PABPN1 plays important role in mRNA stability by regulating of poly-A tail length, mRNA decay and proximal polyadenylation site (PAS) utilization at the 3'-UTR (PMID:23300856). Another report showed that PABPN1 shuttles between the nucleus and the cytoplasm to export poly(A) RNA from the nucleus (PMID:23601051). It is reported that PABPN1 is ubiquitously expressed in almost all tissues, however, mutations in PABPN1 causes Oculopharyngeal Muscular Dystrophy (OPMD) which affected in skeletal muscles specifically. Because of a mild reduction in PABPN1 levels is sufficient to induce muscle wasting (PMID:27152426). Acetylation, Methylation, Phosphoprotein are common post-translational modifications of PABPN1 protein. And 50-55 kDa bands have been reported (PMID: 29939290; 28361972).

## 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

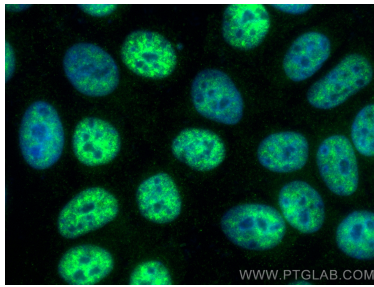
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

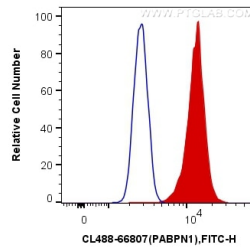
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite® Plus 488 PABPN1 antibody (CL488-66807, Clone: 3C12E12) at dilution of 1:200.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human PABPN1 (CL488-66807, Clone:3C12E12) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).