

# Mu Crystallin Polyclonal antibody

Catalog Number: 12495-1-AP

3 Publications

## Basic Information

## Catalog Number:

12495-1-AP

## Size:

400 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG3161

## GenBank Accession Number:

BC018061

## GeneID (NCBI):

1428

## UNIPROT ID:

Q14894

## Full Name:

crystallin, mu

## Calculated MW:

314 aa, 34 kDa

## Observed MW:

34 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF-P 1:50-1:500

## Applications

## Tested Applications:

WB, IHC, IF-P, FC (Intra), ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

WB : Y79 cells, Jurkat cells, human kidney tissue, human heart tissue

IHC : human gliomas tissue,

IF-P : human gliomas tissue,

## Background Information

mu Crystallin(thiomorpholine-carboxylate dehydrogenase) is also named as THBP, CRYM, ketimine reductase and belongs to the ornithine cyclodeaminase family. This protein catalyzes the reduction of imine bonds in brain substrates that may include cystathionine ketimine (CysK) and lanthionine ketimine (LK). It is also involved in the regulation of the free intracellular concentration of triiodothyronine and access to its nuclear receptor.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yuko Ishido	26370556	Endocr J	WB
Reiji Hommyo	29603402	Neuropathology	WB,IHC,IF
John DeSisto	32634398	Dev Cell	IF

## 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

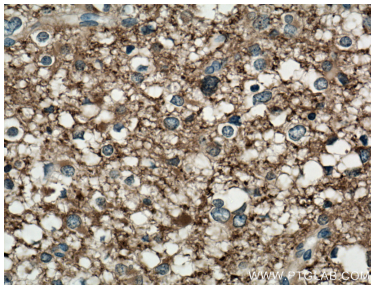
For technical support and original validation data for this product please contact:

T: 4006900926

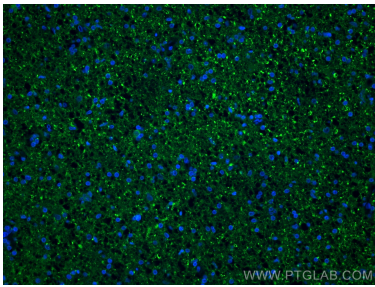
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

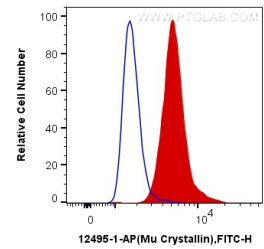
Selected Validation Data



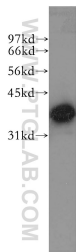
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12495-1-AP (mu Crystallin antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human gliomas tissue using Mu Crystallin antibody (12495-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.2 ug Anti-Human Mu Crystallin (12495-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Y79 cells were subjected to SDS PAGE followed by western blot with 12495-1-AP (mu Crystallin antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.