For Research Use Only

POMC Monoclonal antibody

Catalog Number:66358-1-lg 17 Publications



Basic Information

Catalog Number: GenBank Accession Number:

66358-1-lg BC065832
Size: GenelD (NCBI):

150ul , Concentration: 1000 ug/ml by 5443
Nanodrop; UNIPROT ID:
Source: P01189
Mouse Full Name:

Isotype: proopiomelanocortin
IgG1 Calculated MW:
Immunogen Catalog Number: 267 aa, 29 kDa
AG17311 Observed MW:
35 kDa

Purification Method:

Protein A purification CloneNo.:

3C12C7 Recommended Dilutions: IHC 1:1000-1:4000

IF/ICC 1:200-1:800

Applications

Tested Applications:

IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

IHC, IF

Species Specificity: human, mouse Cited Species:

human, mouse, rat, pig

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:

IHC: human pituitary tissue, mouse pancreas tissue

IF/ICC: HeLa cells,

Background Information

Pro-opiomelanocortin (POMC) is a prohormone that encodes multiple smaller peptide hormones within its structure. POMC plays important roles in many pathological and physiological processes, including regulating energy metabolism, immune reactions, and sexual functions. POMC expression differs quantitatively and qualitatively among most normal tissues. The large molecule of POMC is the source of several important biologically active substances. POMC can be cleaved enzymatically into the following peptides: d NPP, γ -MSH, ACTH, α -MSH, CLIP, Lipotropin β , Lipotropin γ , β -MSH, β endorphin and Met-enkephalin.

Notable Publications

Author	Pubmed ID	Journal	Application
Guangpin Chu	36387867	Front Endocrinol (Lausanne)	IF
Lifang Zhang	34767244	Reprod Sci	IF
Joseph Walters	35537288	Biochem Biophys Res Commun	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

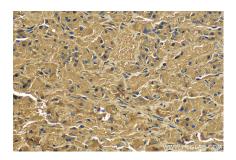
*** 20ul sizes contain 0.1% BSA

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

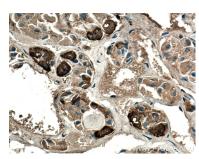
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

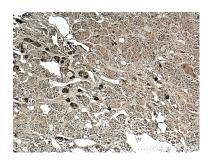
Selected Validation Data



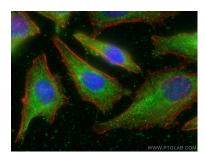
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-Ig (POMC antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



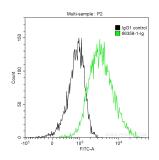
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-Ig (POMC antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-Ig (POMC antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using POMC antibody (66358-1-lg, Clone: 3C12C7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human POMC (66358-1-lg, Clone:3C12C7) and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgC1 Isotype Control (66360-1-lg, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.