For Research Use Only

## POMC Monoclonal antibody

Catalog Number:66358-1-lg 17 Publications

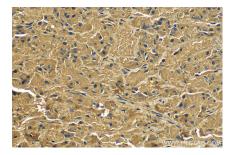
Antibodies | ELISA kits | Proteins www.ptglab.com

| Basic Information      | Catalog Number:<br>66358-1-Ig  | GenBank Accession Number:<br>BC065832<br>GeneID (NCBI):  |  | Purification Metho<br>Protein A purificat                          |   |  |
|------------------------|--|--|--|--|---|--|
|                        | Size:  |  |  | CloneNo.:  |   |  |
|                        | 150ul , Concentration: 1000 ug/ml by   | 5443<br>UNIPROT ID:<br>P01189<br>Full Name:  |  | 3C12C7<br>Recommended Dilutions:<br>IHC 1:1000-1:4000              |   |  |
|                        | Nanodrop;  |  |  |  |   |  |
|                        | Source:  |  |  |  |   |  |
|                        | Mouse  |  |  | IF/ICC 1:200-1:800   |   |  |
|                        | lsotype:<br>lgG1   | proopiomelanocortin  |  |  |   |  |
|                        | Immunogen Catalog Number:<br>AG17311   | Calculated MW:   |  |  |   |  |
|                        |  | 267 aa, 29 kDa<br>Observed MW:   |  |  |   |  |
|                        |  | 35 kDa   |  |  |   |  |
| Applications           | Tested Applications:   |  | Positive Contr   | Controls:<br>nan pituitary tissue, mouse pancreas tissue           |   |  |
|                        | IHC, IF/ICC, FC (Intra), ELISA   |  | IHC : human p  |  |   |  |
|                        | Cited Applications:<br>IHC, IF   | IF/ICC : HeLa cells,   |  |  |   |  |
|                        | Species Specificity:<br>human, mouse   |  |  |  |   |  |
|                        | Cited Species:   |  |  |  |   |  |
|                        | human, mouse, rat, pig   |  |  |  |   |  |
|                        | Note-IHC: suggested antigen retrieval with<br>TE buffer pH 9.0; (*) Alternatively, antigen<br>retrieval may be performed with citrate<br>buffer pH 6.0   |  |  |  |   |  |
| Background Information | Pro-opiomelanocortin (POMC) is a pro<br>POMC plays important roles in many<br>metabolism, immune reactions, and s<br>among most normal tissues. The larg<br>substances. POMC can be cleaved enz<br>Lipotropin β, Lipotropin γ, β-MSH, β en | pathological and phy<br>sexual functions. POM<br>e molecule of POMC i<br>zymatically into the fo | siological proces<br>IC expression dif<br>s the source of se<br>ollowing peptide | ses, including regu<br>fers quantitatively<br>everal important bio | lating energy<br>and qualitatively<br>blogically active |  |
| Notable Publications   | Author Pub   | omed ID Jour   | nal  |  | Application   |  |
|                        | Guangpin Chu 363   | 87867 Fron   | t Endocrinol (Lau  | sanne)   | IF  |  |
|                        | Lifang Zhang 347   | 767244 Repr  | od Sci   |  | IF  |  |
|                        | Joseph Walters 355   | 37288 Bioc   | hem Biophys Res  | Commun   | IF  |  |
|                        |  |  |  |  |   |  |

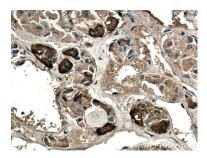
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

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

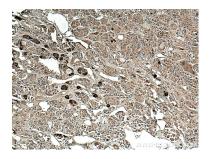
## Selected Validation Data



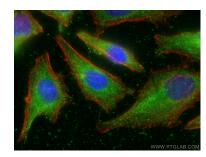
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-1g (POMC antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



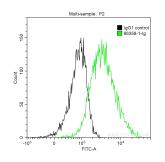
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-1g (POMC antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-1g (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 (66358-1-1g, Clone:3C12C7) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG1 Isotype Control (66360-1-1g, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.