For Research Use Only

POMC Monoclonal antibody

Catalog Number: 66358-1-lg 11 Publications



Basic Information

Catalog Number: 66358-1-lg Size:

1494 µg/ml Source: Mouse Isotype: lgG1

Immunogen Catalog Number:

AG17311

Calculated MW: Observed MW:

35 kDa

GenBank Accession Number: BC065832

GeneID (NCBI): **UNIPROT ID:**

P01189 Full Name: proopiomelanocortin

267 aa, 29 kDa

Positive Controls:

WB: pig brain tissue, rat brain tissue, A375 cells, human placenta tissue, PC-12 cells, Transfected HEK-293 cells

Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:1000-1:4000 IHC 1:1000-1:4000

IF 1:200-1:800

CloneNo.:

3C12C7

IHC: human pituitary tissue, mouse pancreas tissue

IF: HeLa cells,

Applications

Tested Applications: FC, IF/ICC, IHC, WB, ELISA

Cited Applications: WB, IF, IHC

Species Specificity: human, rat, mouse, pig

human, rat, mouse, pig

Cited Species:

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

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)	WB,IF
Lifang Zhang	34767244	Reprod Sci	IF
Joseph Walters	35537288	Biochem Biophys Res Commun	WB,IF

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.

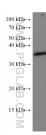
Aliquoting is unnecessary for -20°C storage

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

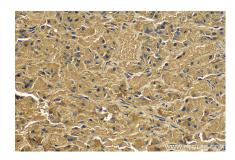
T: 4006900926 E: Proteintech-CN@ptglab.com

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

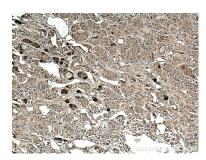
Selected Validation Data



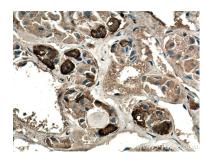
pig brain tissue were subjected to SDS PAGE followed by western blot with 66358-1-Ig (POMC antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



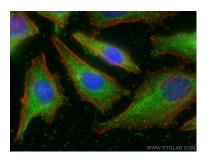
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-Ig (POMC antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



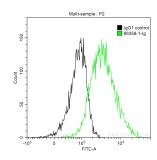
Immunohistochemical analysis of paraffinembedded human pituitary tissue slide using 66358-1-Ig (POMC antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (-20°C Ethanol) fixed Hela cells using POMC antibody (66358-1-Ig, Clone: 3C12C7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure 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 AffiniPure 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.