

For Research Use Only

# ACTH Recombinant monoclonal antibody

Catalog Number: 82498-2-RR



## Basic Information

<b>Catalog Number:</b> 82498-2-RR	<b>GenBank Accession Number:</b> BC065832	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5443	<b>CloneNo.:</b> 250672H3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P01189	<b>Recommended Dilutions:</b> IHC: 1:1000-1:4000 IF-P: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> proopiomelanocortin	
	<b>Calculated MW:</b> 267 aa, 29 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b> IHC : mouse pituitary gland tissue, IF-P : mouse pituitary gland tissue,
<b>Species Specificity:</b> human, mouse	

**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,  $\gamma$ -MSH, ACTH,  $\alpha$ -MSH, CLIP, Lipotropin  $\beta$ , Lipotropin  $\gamma$ ,  $\beta$ -MSH,  $\beta$  endorphin and Met-enkephalin.

## Storage

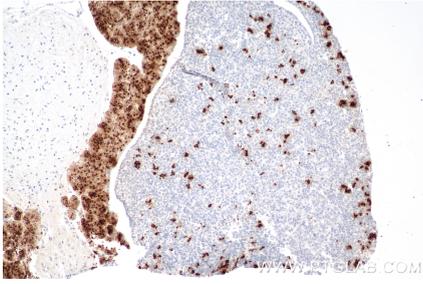
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1%BSA

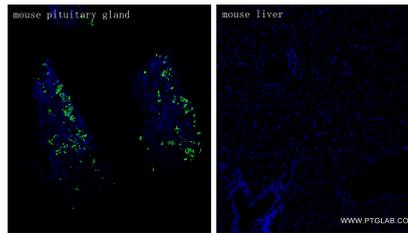
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse pituitary gland tissue slide using 82498-2-RR (POMC antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse pituitary gland tissue using POMC antibody (82498-2-RR, Clone: 250672H3 ) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).