abcam

ab32893

Anti-POMC antibody

Key facts

Isotype	IgG
Host species	Goat
Storage buffer	pH: 7.3 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human POMC aa 250 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link P01189
Purification technique	Affinity purification Immunogen
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	This antibody was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Reactivity data

ELISA

Expected

Species	Human
Dilution info	1/128000
Notes	-

WB

Expected

Species	Human
Dilution info	0.3-2 µg/mL
Notes	A 1 hour primary incubation is recommended for this product. This product appears to react with the full length precursor protein only.

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	2-4 µg/mL
Notes	-

Target data

See full target information POMC

Function

Precursor protein of pituitary hormones that are involved in diverse physiological processes, including the regulation of energy balance, stress response, immune function and skin pigmentation. Corticotropin. Functions as a ligand for the melanocortin receptors MC1R, MC2R, MC3R and MC5R (PubMed:8396929, PubMed:8463333, PubMed:8636348). Activation of MC1R increases melanogenesis in melanocytes found in the skin and hair (PubMed:9620771). Binding to MC2R stimulates the adrenal glands to secrete cortisol (PubMed:8636348). Contributes to the regulation of energy homeostasis through activation of MC3R (Probable). Involved in the regulation exocrine gland function through MC5R activation (By similarity). Melanocyte-stimulating hormone alpha. Serves as a ligand for the melanocortin receptors MC1R, MC3R, MC4R and MC5R (PubMed:8392067, PubMed:8396929, PubMed:8463333). Activation of MC1R promotes melanogenesis in melanocytes of the skin and hair (PubMed:10403794, PubMed:9620771).

Contributes to the regulation of energy homeostasis through activation of MC3R (Probable). Through MC4R activation, functions as an anorexigenic peptide (PubMed:8392067). Promotes immunosuppression and involved in the regulation exocrine gland function through MC5R activation (By similarity). Melanocyte-stimulating hormone beta. Functions as a ligand for the melanocortin receptors MC1R, MC3R, MC4R and MC5R (PubMed:8396929, PubMed:8463333). Activation of MC1R increases melanogenesis in melanocytes found in the skin and hair (Probable). Contributes to the regulation of energy homeostasis through activation of MC3R (Probable). Through MC4R activation, functions as an anorexigenic peptide (PubMed:8392067). Involved in the regulation exocrine gland function through MC5R activation (By similarity). Melanotropin gamma. Functions as a ligand for the melanocortin receptors MC1R, MC3R, MC4R and MC5R (PubMed:8396929, PubMed:8463333). Activation of MC1R increases melanogenesis in melanocytes found in the skin and hair (Probable). Contributes to the regulation of energy homeostasis through activation of MC3R (Probable). Binds to MC4R with low potency (PubMed:8392067). Involved in the regulation exocrine gland function through MC5R activation (By similarity). Beta-endorphin. Endogenous orexigenic opiate. Met-enkephalin. Endogenous opiate.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

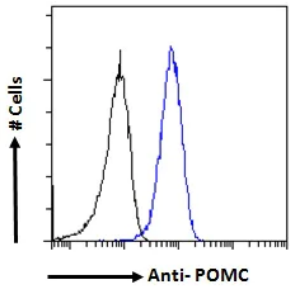
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

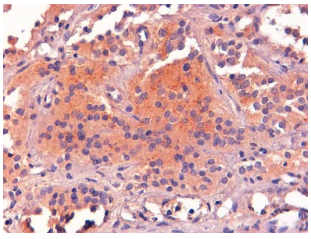
2 product images



Flow Cytometry (Intracellular) - Anti-POMC antibody (ab32893)

POMC Flow Cytometry (Intracellular) staining using goat Anti-POMC antibody

Flow cytometry analysis of paraformaldehyde fixed A431 (human epidermoid carcinoma cell line) cells (blue line) labeling POMC with ab32893 at 10 µg/mL. Cells permeabilized with 0.5% Triton. Primary incubation for 1 hour followed by Alexa Fluor® 488 secondary antibody at 1 µg/mL. IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor® 488 secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POMC antibody (ab32893)

POMC Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using goat Anti-POMC antibody

Immunohistochemical analysis of Human pituitary gland labeling POMC with ab32893. Antigen retrieval by steaming with Tris/EDTA buffer pH 9. HRP-staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.