Human POMC Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 967905

Catalog Number: FAB9498V

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human POMC in immunohistochemistry.
Source	Monoclonal Mouse IgG_1 Clone # 967905
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human Adrenocorticotropic hormone/ACTH) synthetic peptide Accession # P01189
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Adrenocorticotropic hormone (ACTH)/corticotropin is a 39 amino acid peptide generated by cleavage of the POMC, a preprotein which also can also be cleaved to produce MSH, Beta-endorphin and Met-enkephalin, depending on tissue expression and context. ACTH is a ligand for the ACTH receptor, also known as melanocortin receptor 2. ACTH is secreted by the anterior pituitary gland upon stimulation by corticotropin-releasing hormone (CRH) which is secreted by the hypothalamus. The principal effect of ACTH is production of cortisol by the adrenal gland but it also mediates bone formation and osteoblast survival. ACTH has been shown to induce insulin resistance in adipocytes and promote pro-inflammatory adipokine secretion.

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