IHCAb™ Adrenocorticotropin (ACTH) (BGT-ACTH) mouse mAb

Cat #: B-IMW6001

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

Background

This gene encodes a preproprotein that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the preproprotein and, depending on tissue type and the available convertases, processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, essential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin beta are the major end products. In other tissues, including the hypothalamus, placenta, and epithelium, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeostasis, melanocyte stimulation, and immune modulation.

Product Information

Applications/Dilution: WB 500-2000 IHC-p 1:100-500. IF 1:50-200

Isotype/Source: Mouse, Monoclonal/IgG1, Kappa

Specificity: This antibody detects endogenous levels of human Adrenocorticotropin(ACTH). Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH8.0 was highly recommended as antigen repair method in paraffin section

Subcellular Location: Secreted . Melanocyte-stimulating hormone alpha and beta-endorphin are stored in separate granules in hypothalamic POMC neurons, suggesting that secretion may be under the control of different regulatory mechanisms

Expression: ACTH and MSH are produced by the pituitary gland

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Storage: Store at -15°C to -25°C

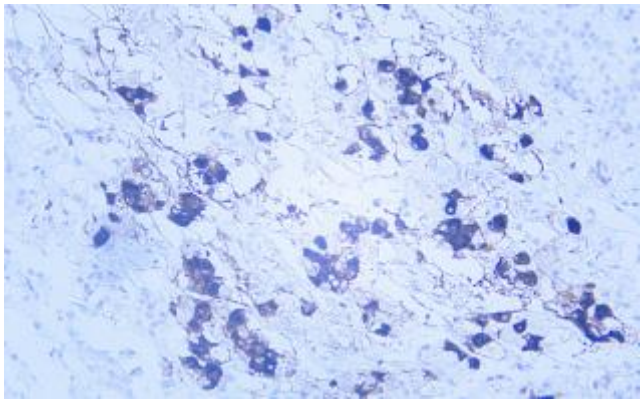

Fig.1. Human pituitary adenoma tissue was stained with anti-ACTH antibody.Secondary Antibody was Biogradetech POLY™ Polymer HRP Goat Anti-Rabbit/Mouse IgG(H+L) Secondary Antibody (B-IMWRS11).

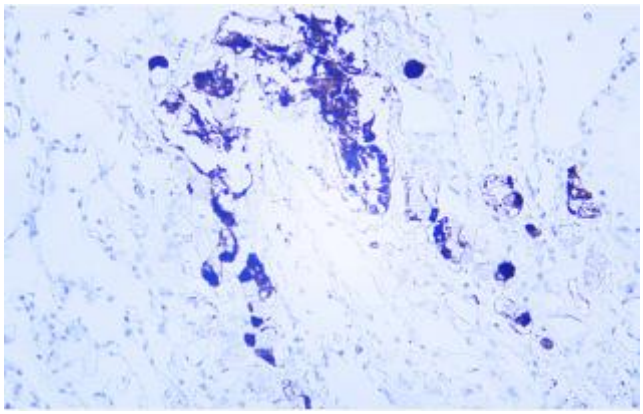

Fig.2. Human pituitary adenoma tissue was stained with anti-ACTH(ABT-ACTH) antibody.Secondary Antibody was Biogradetech POLY™ Polymer HRP Goat Anti-Rabbit/Mouse IgG(H+L) Secondary Antibody (B-IMWRS11).

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.