

Instructions For Use

RA0267-C.5-IFU-RUO

Rev. Date: Nov. 21, 2014

Revision: 1

Page 1 of 2

P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

ACTH (Adrenocorticotrophic Hormone); Clone 2F6 (Concentrate)

Availability/Contents: <u>Item #</u> <u>Volume</u>
RA0267-C.5 <u>Volume</u>
0.5 ml

Description:

Species: Mouse

Immunogen: Synthetic peptide corresponding to aa 1-24 of human ACTH

Clone: 2F6

Isotype: IgG1, kappa Entrez Gene ID: 5443 (Human)

Hu Chromosome Loc.: 2p23.3

Synonyms: Adrenocorticotropin; alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or

Melanotropin; beta-Endorphin; beta or gamma Lipotropin (LPH); CLIP; Met Enkephalin; POC;

POMC.

Mol. Weight of Antigen: ACTH is ~5kDa, and the POMC precursor is ~30kDa. The molecular weight of POMC depends

upon isoform variation and post-translational modifications.

Format: 200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide.

Specificity: This antibody is specific to Synacthen (aa 1-24 of ACTH); this antibody does not react with

CLIP (aa 17-39 of ACTH). Anti-ACTH is a useful marker in classification of pituitary tumors and in the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic

syndromes by secreting ACTH.

Background: ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior

pituitary. POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid polypeptide hormone precursor that goes through extensive, tissue-specific, posttranslational processing by convertases. POMC is cleaved into ten hormone chains named NPP, ACTH, alpha-MSH (Melanocyte Stimulating Hormone), beta-MSH, gamma-MSH, CLIP (corticotropin-like intermediary peptide), Lipotropin-beta, Lipotropin-gamma, beta-endorphin, and Metenkephalin. ACTH is also produced by cells of the immune system (T-cells, B-cells, and

macrophages) in response to stimuli associated with stress.

Species Reactivity: Human, Mouse, and Rat. Expected to show a broad species reactivity.

Positive Control: Normal pituitary gland or pituitary tumor.

Cellular Localization: Cytoplasmic

Titer/ Working Dilution: Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml

Flow Cytometry: 0.5-1 µg/million cells

Immunofluorescence: 0.5-1 μg/ml Western Blotting: 0.5-1 μg/ml

Immunoprecipitation: 0.5-1 μg/500μg protein lysate

Microbiological State: This product is not sterile.

Storage: 2° C 8° C

ScyTek Laboratories, Inc. 205 South 600 West

Logan, UT 84321 U.S.A. CE

EC | REP | EmergoEurope (31)(0) 70 345-8570

Molsnstraat 15

2513 BH Hague, The Netherlands



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Page 2 of 2

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Uses/Limitations: Not to be taken internally.

For Research Use Only.

This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded

tissue sections, to be viewed by light

microscopy.

Do not use if reagent becomes cloudy.

Do not use past expiration date.

Non-Sterile.

Ordering Information and Current Pricing at www.scytek.com

Procedure:

- Tissue Section Pretreatment (Highly Recommended): Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
- Primary Antibody Incubation Time: We suggest an incubation period of 30 minutes at room temperature.
 However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- 3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

Precautions:

Contains Sodium Azide as a preservative (0.09% w/v).

Do not pipette by mouth.

Avoid contact of reagents and specimens with skin and mucous membranes.

Avoid microbial contamination of reagents or increased nonspecific staining may occur.

This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200,

OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

References:

1. Hsu DW et. al. American Journal of Pathology, 1991, 138(4):897-909.

Warranty:

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EmergoEurope (31)(0) 70 345-8570 Molsnstraat 15 2513 BH Hague, The Netherlands