

### 36-3004: Monoclonal Antibody to ACTH (Clone: AH26)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	AH26
<b>Application :</b>	FACS, IF, IHC-P
<b>Reactivity :</b>	Human
<b>Gene :</b>	POMC
<b>Gene ID :</b>	5443
<b>Uniprot ID :</b>	P01189
<b>Format :</b>	Purified
<b>Alternative Name :</b>	POMC
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Amino acids 1-24 of human ACTH were used as the immunogen for the antibody.

#### Description

ACTH (Adrenocorticotrophic hormone) is produced and secreted by the anterior pituitary gland, and is a key component of the hypothalamic-pituitary-adrenal axis. ACTH is synthesized from the precursor molecule pre-opiomelanocorin (POMC). POMC undergoes proteolytic cleavages and processing to generate not only ACTH but also a number of other small biologically active peptides including alpha-MSH and beta-endorphin, all in cell type specific manners. The production of ACTH is triggered by biological stress. ACTH, in turn, then stimulates the secretion of corticosteroids by the adrenal cortex. The half-life of ACTH in human blood is only about ten minutes. An excess of ACTH can cause Cushing's syndrome whereas ACTH deficiency can result in secondary adrenal insufficiency.

#### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

#### Application Note

Flow Cytometry (0.5-1ug/million cells), Immunofluorescence (1-2ug/ml), Immunohistochemistry (Formalin-fixed) (0.5-1ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes)

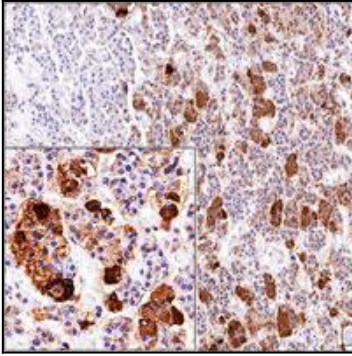


Fig: 1 Immunohistochemical analysis of ACTH in human pituitary gland using ACTH antibody (Clone: AH26) at 1:2000 dilution.