9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

Clonality :	Monoclonal
Clone Name :	AH26
Application :	FACS, IF, IHC-P
Reactivity :	Human
Gene :	POMC
Gene ID :	5443
Uniprot ID :	P01189
Format :	Purified
Alternative Name :	POMC
Isotype :	Mouse IgG1, kappa
Immunogen Information :	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

Amount :	100 µg
Purification :	Protein G Chromatography
Content :	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.
Storage condition :	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 Â°C followed by cooling at RT for 20 minutes)

9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

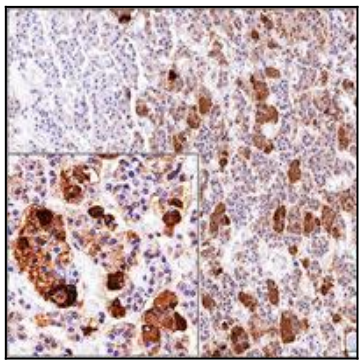

Fig: 1 Immunohistochemical analysis of ACTH in human pituitary gland using ACTH antibody (Clone: AH26) at 1:2000 dilution.