

Product datasheet for **AM50199PU-T**

ACTH (POMC) (1-24) Mouse Monoclonal Antibody [Clone ID: 2F6]

Product data:

Product Type: Primary Antibodies

Clone Name: 2F6

Applications: FC, IF, IHC, IP, WB

Recommended Dilution: **ELISA:** Use BSA free Antibody for coating.

Flow Cytometry: 0.5-1 µg/million cells.

Immunofluorescence: 0.5-1 µg/ml.

Western Blotting: 0.5-1.0 µg/ml.

Immunoprecipitation: 0.5-1 µg/500 µg protein lysate.

Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1.0 µg/ml for 30 min at RT.

No special pretreatment is required for staining of formalin-fixed tissues.

Positive Control: Normal pituitary gland or pituitary tumor.

Reactivity: Human, Mouse, Rat

Host: Mouse

Isotype: IgG1

Clonality: Monoclonal

Immunogen: Synthetic peptide corresponding to aa1-24 of Human ACTH.

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

This Monoclonal Antibody is specific to Synacthen (aa1-24 of ACTH); does not react with CLIP (aa17-39 of ACTH). 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 Met-enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and macrophages) in response to stimuli associated with stress. Anti-ACTH is a useful marker in classification of pituitary tumors and 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.

Cellular Localization: Cytoplasmic.



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Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	ACTH is ~5 kDa, and the POMC precursor is ~30 kDa.
Gene Name:	proopiomelanocortin
Database Link:	Entrez Gene 5443 Human P01189
Synonyms:	Pro-opiomelanocortin, Corticotropin-Lipotropin