

Datasheet



Mouse mAb to **ACTH**
Clone **2F6**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with ACTH synthetic peptide (aa 1-24) conjugated to KLH. Fusion partner SP2/0.

Specifications

ACTH (same as corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. 2F6 is specific to synacthen (aa 1-24 of ACTH); does not react with CLIP (aa 17-39 of ACTH). 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

Positive: human, mouse, rat.

Applications

2 F6 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 lung carcinomas) causing paraneoplastic syndromes by secreting ACTH.

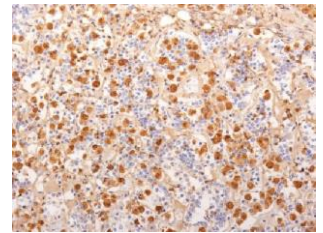


Figure 1: Human pituitary gland stained with 2F6 (paraffin)

| ELISA | Flow cytometry | Frozen sections | Immunofluorescence | Paraffin sections |
|-------|----------------|-----------------|--------------------|-------------------|
| + | + | + | + | Citrate |

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (formalin-fixed: 2-4 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6,0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

Pituitary gland, pituitary tumor.

References

- Kimitsuki K. et al. *J Vet Med Sci* **76(1)** 133-138 (2014).