

Datasheet



Mouse mAb to **GnRH receptor**
Clone **F1G4**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with a BSA-conjugated peptide corresponding to amino acids 1-29 (MANSASPEQNQHCSAINNSIPLMQGNLPY) of human GnRH receptor extracellular domain.
Fusion partner: SP2/0.

Specifications

F1G4 reacts with GnRH receptors in the anterior pituitary. GnRH stimulates the gonadotrophs of the anterior pituitary to secrete luteinising hormone (LH) as well as follicle-stimulating hormone (FSH). The receptor contains seven hydrophobic transmembrane domains connected by hydrophilic extracellular, and intracellular loops characteristic of G protein couple receptors. Some cancers like ovarian and breast cancers sometimes carry GnRH receptors.

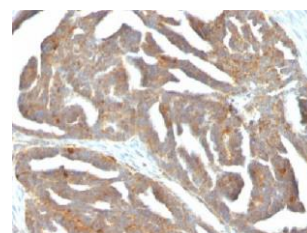


Figure 1: Ovarian cancer stained with F1G4 (paraffin)

Species reactivity

Positive: human, rat.

Applications

F1G4 specifically stains human GnRH receptors in the anterior pituitary.

ELISA	Frozen sections	Paraffin sections	Western blot
+	+	Tris/EDTA	+

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: not known; tracer: 0,001-100 µg/ml for 30 min at RT).
- Immunoblotting (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissue requires boiling tissue sections in 10mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

Human pituitary gland, ovarian and breast cancers.

References

- Karande, A.A., et al., *Molec. Cell. Endocrinol.* **114**: 51-56 (1995).