

Novocastra™ Lyophilized Mouse Monoclonal Antibody Human Follicle Stimulating Hormone (beta 2)

Product Code: NCL-HFSH

Intended Use	For In Vitro Diagnostic Use: This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
Specificity	Human follicle stimulating hormone, beta 2 epitope of beta subunit. Not crossreactive with human thyroid stimulating hormone, human luteinising hormone, human chorionic gonadotrophin, alpha human chorionic gonadotrophin and alpha human follicle stimulating hormone.
Clone	INN-hFSH-60
Ig Class	IgG1
Antigen Used for Immunizations	Human follicle stimulating hormone
Hybridoma Partner	Mouse myeloma (p3-X63-Ag8.653).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with the volume of sterile distilled water indicated on the vial label.
Effective on Frozen Tissue	Yes
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry: Typical working dilution 1:25–1:50. Trypsin digestion of paraffin sections is recommended. 60 minutes primary antibody incubation at 25 °C. Standard ABC technique. Western Blotting: Not evaluated.
Positive Controls	Immunohistochemistry: Pituitary gland.
Staining Pattern	Cytoplasmic.
Storage and Stability	Store unopened lyophilized antibody at 4 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
General Overview	Follicle stimulating hormone (FSH) is a pituitary hormone of 35 kD which is involved in the maturation of ovarian follicles and stimulation of estrogen secretion. In males, FSH stimulates the secretion of testosterone. It is expressed in gonadotropic cells of the pituitary.
General References	Holm R, Nesland J M, Attramadal A, et al. Journal of Pathology. 158: 213–217 (1989). Jautzke G. Path. Res. Pract. 183: 601–605 (1988). Hitchcock E and Morris C S. Histochemical Journal. 18: 317–320 (1986).



Instructions for Use

Trypsin Digestion for Immunohistochemical Demonstration on Paraffin Sections

1. Preheat the following to 37 °C using a water bath:
 - (i) 200 mL of TBS
 - (ii) 200 mL of distilled water.
2. Dissolve 0.2 g Trypsin 250 and 0.2 g Calcium chloride in the 200 mL of TBS.
3. Once the Trypsin solution is at 37 °C, pH to 7.8 with 1 M sodium hydroxide.
4. Place rehydrated paraffin sections in the distilled water to preheat the sections to 37 °C for a minimum of 5 minutes.
5. Incubate sections in Trypsin solution at 37 °C. The time required will depend on the antibody and tissue, however, 30 minutes is usually sufficient.
6. Rinse sections in running tap water.
7. Proceed with immunohistochemistry protocol.

Reagents Required but not Supplied

50 mM Tris-buffered saline

Trypsin 250: Difco order code 0152-13 (available from Becton Dickinson).

Calcium chloride

1 M Sodium Hydroxide

** Trypsin containing chymotrypsin should always be used. The enzyme activities can vary from a supplier and between batches. Such variations may affect the incubation time required.*