

Factor 1 Esteroidogénico (N1665)


Mouse anti-Steroidogenic Factor 1 Monoclonal Antibody (clone N1665)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use (manual or LabVision AutoStainer)**
MAD-000580QD-3
MAD-000580QD-7
MAD-000580QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-000580QD-3/V
MAD-000580QD/V
- **concentrated**
MAD-000580Q - 1:100 recommended dilution

COMPOSITION

Mouse anti-Steroidogenic Factor 1 (SF1) monoclonal antibody obtained from purified ascitic fluid and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: N1665

Ig ISOTYPE: IgG1

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS:

Steroidogenic factor 1 (SF-1), also known as Ad4BT (adrenal 4 binding protein) or NR5A1 (nuclear receptor subfamily, group 5, member 1) is a transcription factor that belongs to the nuclear receptor superfamily and functions as a key regulator in the development and function of the adrenal gland and the male reproductive system after the enzymatic control of the biosynthesis of corticosteroids and aldosterone. It also intervenes at pituitary level for the development of the gonads.

SF-1 is encoded by the NR5A1 gene, located in the region q33 of chromosome 9. It is a gene of 22kb containing 7 exons.

Mutations of the gene are responsible for the development of dysgenetic gonads and ovarian

insufficiency in women or female gonads or ambiguous gonads in men. It is also responsible for the absence of puberty and infertility, especially in men.



In normal tissues, the antibody expresses in the Leydig and Sertoli cells, whose intensity increases along with age. However, the expression of the Sertoli cells is less intense and gets to mark isolated cells in pubertal and adult patients. In hypophysis, it shows nuclear staining in adenohypophysis where it marks isolated cells.

In tumors, it is a selectable marker for the diagnosis of gonadotropic adenomas, being a more sensitive marker but less specific than LH or FSH. It is also a sensitive and specific marker for sex cord-gonadal stromal tumors of the ovary or testis, as well as for differentiating tumors originated in the adrenocortical of other tumors with similar morphology.

IHC POSITIVE CONTROL: Normal ovary or hypophysis
VISUALIZATION: Nuclear

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 30 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).

- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Ref: MAD-004072R/D



Vitro S.A.

Calle Luís Fuentes Bejarano 60 Ed. Nudo Norte Local 3 41020 Sevilla (Spain)
Tel: +34 954 933 200. vintro@vitro.bio; www.vitro.bio



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under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

BIBLIOGRAPHY










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LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet