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DATA SHEET

Mouse Anti-STAR [MD81]: MC0397, MC0397RTU7

Intended Use: For Research Use Only

Description: Steroidogenic acute regulatory protein (STAR), is a rapidly synthesized labile mitochondrial phosphoprotein whose expression, activation and extinction is regulated by protein kinase A (PKA) and PKC, as well as a host of other signaling pathways. STAR is primarily present in steroid-producing cells, including Leydig cells in the testis, theca cells and luteal cells in the ovary and adrenal cells in the adrenal cortex. Low level of STAR expression in other tissues that produce steroid hormones for local use have been reported. STAR is a sensitive and specific marker for Leydig cell tumor. It is useful for differential diagnosis of sex-cord stromal tumor (SCST).

Specifications

Clone:	MD81
Source:	Mouse
Isotype:	IgG2b/k
Reactivity:	Human
Immunogen:	Recombinant fragment aa 39-108 of human STAR protein
Localization:	Cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

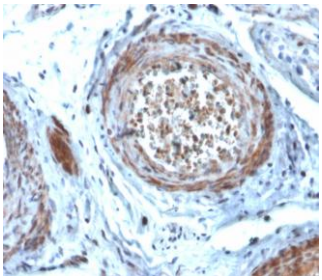
Package:

Description	Catalog No.	Size
STAR Concentrated	MC0397	1 ml
STAR Prediluted	MC0397RTU7	7 ml

IHC Procedure

Positive Control Tissue:	Leydig cell tumor, testis
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human testis stained with anti-STAR using DAB

References:

1. Steroidogenic effects of Taraxacum officinale extract on the levels of steroidogenic enzymes in mouse Leydig cells. Chung HJ, et al. Anim Cells Syst (Seoul) 22:407-414, 2018.
2. Effects of maternal acrolein exposure during pregnancy on testicular testosterone production in fetal rats. Yang Y, et al. Mol Med Rep 16:491-498, 2017.
3. Banu SK et al. Resveratrol protects the ovary against chromium-toxicity by enhancing endogenous antioxidant enzymes and inhibiting metabolic clearance of estradiol. Toxicol Appl Pharmacol 303:65-78, 2016.

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