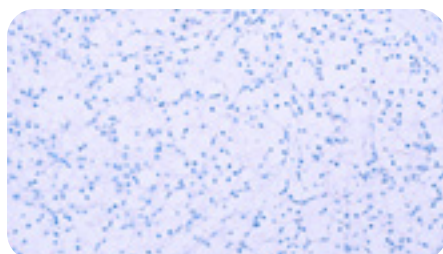
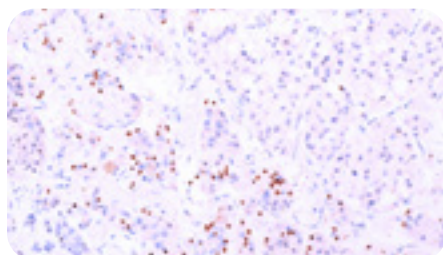
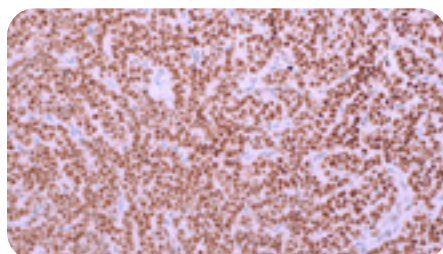
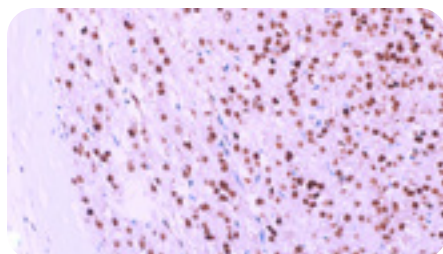


Cell Marque™ Tissue Diagnostics SF-1 (EP434)

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Immunohistochemistry is a useful tool in differentiating gonadal sex cord stromal tumors from their mimics, such as endometrioid carcinomas, as well as differentiating adrenal cortical carcinomas from renal neoplasms. The former differential includes immunohistochemical stains such as inhibin-alpha, calretinin, CD99, and CD56,¹ and the latter differential utilizes immunohistochemical stains such as inhibin-alpha, MART-1, and synaptophysin. The common stain for both is inhibin-alpha, a cytoplasmic subunit of the heterodimeric protein inhibin. Inhibin limitations include intellectual property claims for specific clones for application, as well as staining variation resulting from epitope oxidation in pre-cut control slides.

Steroidogenic factor 1, or SF-1, is a nuclear transcription factor member of the steroid receptor family. It is present in the pituitary gland as well as steroidogenic tissues such as pituitary gonadotrophs, adrenal cortex, granulosa cells of the ovary, and Sertoli cells and Leydig cells of the gonads.² SF-1 is expressed in adrenal cortex as well as adrenocortical carcinoma, but is negative in renal neoplasms including clear renal cell carcinoma, chromophobe renal cell carcinoma, and oncocytoma. SF-1 is also strongly, diffusely expressed in gonadal sex cord stromal tumors but negative in the SCST mimics.³⁻⁴ In pituitary adenomas, SF-1 is useful in characterizing pituitary adenomas⁵ and is more sensitive than LH and FSH IHC in pituitary histopathology.⁶

Benefits of SF-1

- For *in vitro* diagnostic use
- Rabbit monoclonal technology
- Nuclear visualization
- Compatible with automated platforms
- Useful for detecting of gonadotroph adenomas
- Sensitive and specific marker for gonadal sex cord stromal tumors
- Sensitive and specific marker for adrenocortical neoplasms

Images (top to bottom)

1. Leydig cell tumor
2. granulosa cell tumor
3. normal tissue
4. renal cell carcinoma

Ordering Information

Volume	Cat. No.
0.1 mL concentrate	462R-14
0.5 mL concentrate	462R-15
1.0 mL concentrate	462R-16
1.0 mL predilute	462R-17
7.0 mL predilute	462R-18

References

1. Zheng W, et al. Adv Anat Pathol. 2003; 10:27-38
2. <http://www.pathologyoutlines.com/topic/stainssf1.html>
3. Zhao C, et al. Int J Gynecol Pathol. 2008; 27:507-14.
4. Stewart CD, et al. Pathology. 2016 Aug;48(5):434-40
5. McDonald WC, et al. Arch Pathol Lab Med. 2017; 141:104-112.
6. Mete O, et al. Mod Pathol. 2018; 31:900-909.

Intended Use

SF-1 (EP434) Rabbit Monoclonal Primary Antibody is intended for laboratory use in the detection of the steroidogenic factor-1 protein in formalin-fixed, paraffin-embedded tissue stained in qualitative immunohistochemistry (IHC) testing. These products cannot be used for cancer diagnosis or decisions regarding treatment pathways.

