Datasheet for ABIN7660683

anti-Testosterone antibody (CF®514)

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Overview

Quantity:	100 µL
Target:	Testosterone
Reactivity:	Various Species
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Testosterone antibody is conjugated to CF®514
Application:	Immunohistochemistry (IHC), Radioimmunoassay (RIA), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	Testosterone(4E1G2), CF514 conjugate
Immunogen:	Testosterone 3 CMO conjugated to BSA
Clone:	4E1G2
Isotype:	IgG1, kappa
Characteristics:	This MAb is highly specific to testosterone. Its affinity constant for testosterone is ~1010 M-1. In competitive binding immunoassay, it reacts with testosterone 100%, 11-beta-hydroxy testosterone 3.3%, 17-alpha-methyl testosterone <0.1%, 5-alpha DHT 0.8%, estradiol <0.1% and progesterone <0.1%. Testosterone, a steroid hormone from the androgen group, is derived from cholesterol. Testosterone is primarily secreted in the testes, but the ovaries and adrenal glands also produce smaller amounts. It is the principal male sex hormone and is responsible for the maturation of sex organs and the development of male secondary sex characteristics. The

Product Details

	hormone is also involved in the growth of muscle mass and increases bone density and maturation. It functions by activating the androgen receptor and converting to estradiol and activation of estrogen receptors. Testosterone has been employed therapeutically to treat many conditions including infertility, lack of libido, osteoporosis, height growth and bone marrow stimulation. Anti-testosterone antibody may also prove useful in identification of testicular tumors arising from interstitial cells. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	Testosterone
Target Type:	Hormone
Background:	Synonyms: 17i²-Hydroxy-3-oxo-4-androstene, 17i²-Hydroxy-4-androsten-3-one, 4-Androsten-17i²-ol-3-one, trans-Testosterone Tissue Expression: Testis
Molecular Weight:	288.42Da

Application Details

Application Notes:	Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM citrate buffer pH 6.0 for 10-20 min followed by cooling at RT for 20 min. Immunohistology formalin-paraffin 0.25-0.5 µg/mL. ELISA For coating, order Ab without BSA. Optimal dilution for a specific application should be determined by user
Comment:	Positive Control: Interstitial or Leydid cells in testis.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months