Datasheet for ABIN6189840

anti-Testosterone antibody (CF®405S)

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Overview

Quantity:	100 µL
Target:	Testosterone
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Testosterone antibody is conjugated to CF®405S
Application:	ELISA, Immunohistochemistry (IHC), Coating (Coat), Immunostaining (ISt)

Product Details

Purpose:	Mouse Monoclonal anti-Testosterone (4E1G2), CF405S 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 ~10^{10} 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 hormone is also involved in the growth of muscle mass and increases bone density and

Product Details

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
Abstract:	Testosterone Products
Target Type:	Hormone
Background:	17i²-Hydroxy-3-oxo-4-androstene, 17i²-Hydroxy-4-androsten-3-one, 4-Androsten-17i²-ol-3-one, trans-Testosterone
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:	Interstitial or Leydid cells in testis.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	100 µg/mL
Buffer:	PBS/0.1 % BSA/0.05 % azide

Handling

Preservative:	Sodium azide
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