

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 17 β -HSD14/HSD17B14 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 736043
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human 17 β -HSD14/HSD17B14 Ala2-Ser270 Accession # Q9BPX1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HSD-17b14 (hydroxysteroid (17-beta) dehydrogenase type14), also called 17bHSD14 or DHRS10, is a cytoplasmic 17beta-hydroxysteroid dehydrogenase that is a member of the SDR (short-chain dehydrogenase/reductase) family. It is a 270 amino acid, approximately 30 kDa protein with mRNA highly expressed in brain, placenta, liver and kidney. It converts estradiol to estrone, thus inactivating it, and is thought to regulate activity of estrogens and possibly dihydroepiandrosterone (DHEA) in the placenta and central nervous system. Human HSD-17b14 shares 80.5% amino acid sequence identity with mouse and rat HSD-17b14.

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