

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 17 β -HSD1/HSD17B1 in ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 860020
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human 17 β -HSD1/HSD17B1 Ala2-Gln328 Accession # P14061
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot 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

HSD17B1 (Hydroxysteroid 17-beta dehydrogenase type 1; also 17 β -HSD1 and E2DH) is a 33-34 kDa member of the short chain dehydrogenase/reductase (SDR) superfamily of molecules. It is a cytoplasmic breast, placental and gonadal enzyme that both converts DHEA to estrogen A-diol, and inactivates DHT through oxidation and reduction. Human HSD17B1 is 328 amino acids (aa) in length. It contains an NADP binding site (aa 10-38) and a steroid catalytic site (aa 210-221). HSD17B1 functions as a 68 kDa noncovalently-linked homodimer. Over aa 2-328, human HSD17B1 shares 65% aa identity with mouse HSD17B1.

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