

DESCRIPTION

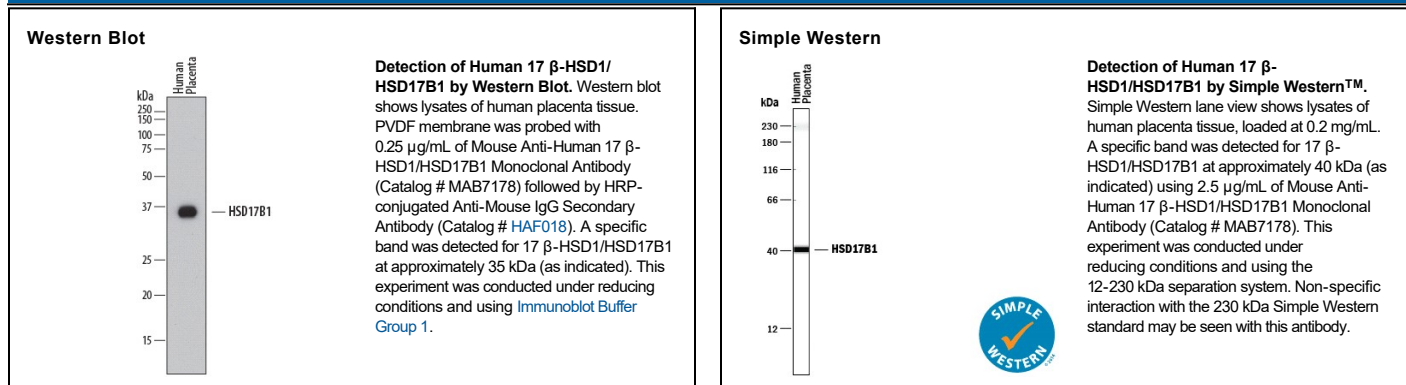
Species Reactivity	Human
Specificity	Detects human 17 β -HSD1/HSD17B1 in ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 860020
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human 17 β -HSD1/HSD17B1 Ala2-Gln328 Accession # P14061
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.25 μ g/mL	See Below
Simple Western	2.5 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.