

Human 17 β-HSD1/HSD17B1 Antibody

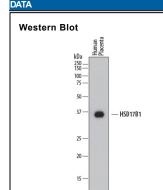
Monoclonal Mouse IgG_{2B} Clone # 860020 Catalog Number: MAB7178

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	E. coli-derived recombinant human 17 β-HSD1/HSD17B1 Ala2-Gln328 Accession # P14061		
Formulation	Lyophilized from a 0.2 µm 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 µm filtered solution in PBS.		

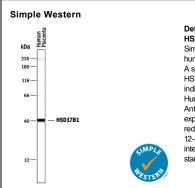
APPLICATIONS

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 μg/mL	See Below
Simple Western	2.5 μg/mL	See Below



Detection of Human 17 β-HSD1/ HSD17B1 by Western Blot. Western blot shows lysates of human placenta tissue. PVDF membrane was probed with 0.25 μg/mL of Mouse Anti-Human 17 β-HSD1/HSD17B1 Monoclonal Antibody (Catalog # MAB7178) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for 17 β-HSD1/HSD17B1 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human 17 β-HSD1/HSD17B1 by Simple WesternTM. Simple Western lane view shows lysates of human placenta tissue, loaded at 0.2 mg/mL. A specific band was detected for 17 β-HSD1/HSD17B1 at approximately 40 kDa (as indicated) using 2.5 μg/mL of Mouse Anti-Human 17 β-HSD1/HSD17B1 Monoclonal Antibody (Catalog # MAB7178). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

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

- 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.

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