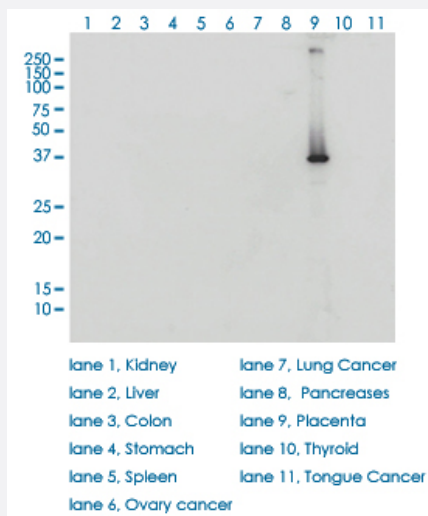


HSD3B1 monoclonal antibody (M01), clone 3C11-D4

Catalog # H00003283-M01

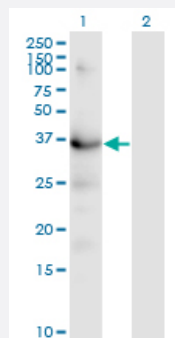
Size 100 ug

Applications



Western Blot (Cell lysate)

HSD3B1 monoclonal antibody (M01), clone 3C11-D4. Western Blot analysis of HSD3B1 expression in human placenta.



Western Blot (Transfected lysate)

Western Blot analysis of HSD3B1 expression in transfected 293T cell line by HSD3B1 monoclonal antibody (M01), clone 3C11-D4.

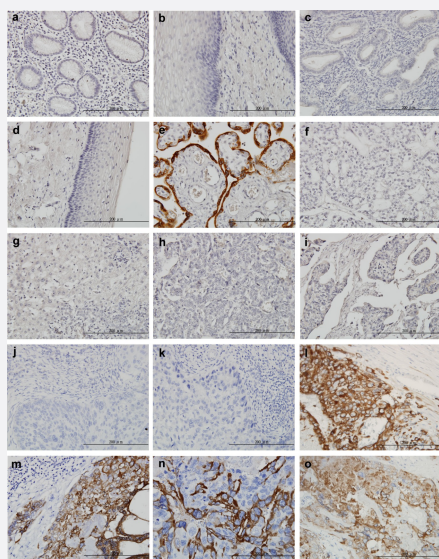
Lane 1: HSD3B1 transfected lysate (Predicted MW: 42.3 KDa).

Lane 2: Non-transfected lysate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

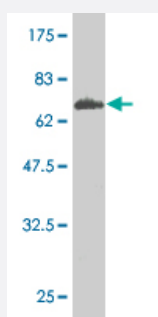
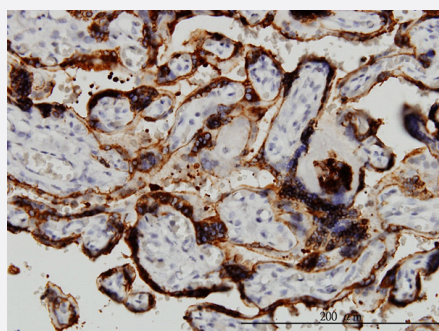
Immunohistochemical staining of various tissues with hematoxylin and HSD3B1 antibody under high magnification. [antibody concentration 3 ug/ml]

- (a) Stomach
- (b) Esophagus
- (c) Endometrium
- (d) Uterine cervix
- (e) Placenta
- (f) Ovary, clear cell carcinoma
- (g) Hepatocellular carcinoma
- (h) Breast cancer
- (i) Colon adenocarcinoma
- (j and k) Cervical carcinoma
- (l, m, and n) Choriocarcinoma
- (o) Epithelioid trophoblastic tumor



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HSD3B1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Western Blot detection against Immunogen (66.77 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant HSD3B1.

Immunogen

HSD3B1 (AAH31999.1, 1 a.a. ~ 373 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence	MTGWSCLVTGAGGFLGQRIIRLLVKEKELKEIRVLDKAFGPPELREEFSKLQNKTKLTVLEGDILDEP FLKRACQDVSIIHTACIIDVFGVTHRESIMNVNVKGTQLLLEACVQASVPVFYTSIEVAGPNSYK EIIQNGHEEEPLENTWPAPYPHSHKLAEKAVLAANGWNLKNGGTLYTCALRPMYYGEGSRFLSAS INEALNNNGILSSVGKFSTVNPVYVGNVAWAHILALRALQDPKKAPSIRGQFYISDDTPHQSVDNL NYTLSKEFGLRLDSRWSFPLSLMYWIGFLLFVLSFLLRPIYTYRPPFNRHIVTSLNSVFTFSYKKAQR DLAYKPLYSWEEAKQKTVEWVGSLVDRHKENLKSQTQ
Host	Mouse
Reactivity	Human
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (66.77 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

HSD3B1 monoclonal antibody (M01), clone 3C11-D4. Western Blot analysis of HSD3B1 expression in human placenta.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of HSD3B1 expression in transfected 293T cell line by HSD3B1 monoclonal antibody (M01), clone 3C11-D4.

Lane 1: HSD3B1 transfected lysate (Predicted MW: 42.3 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of various tissues with hematoxylin and HSD3B1 antibody under high magnification. [antibody concentration 3 ug/ml]

- (a) Stomach
- (b) Esophagus
- (c) Endometrium
- (d) Uterine cervix
- (e) Placenta
- (f) Ovary, clear cell carcinoma
- (g) Hepatocellular carcinoma
- (h) Breast cancer
- (i) Colon adenocarcinoma
- (j and k) Cervical carcinoma
- (l, m, and n) Choriocarcinoma
- (o) Epithelioid trophoblastic tumor

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to HSD3B1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- ELISA

Gene Info — HSD3B1

Entrez GeneID	3283
GeneBank Accession#	BC031999
Protein Accession#	AAH31999.1
Gene Name	HSD3B1
Gene Alias	HSD3B, HSDB3, SDR11E1
Gene Description	hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1
Omim ID	109715
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	hydroxy-delta-5-steroid dehydrogenase, 3 beta-and steroid delta-isomerase 1 short chain dehydratase/reductase family 11E, member 1

Publication Reference

- [Intracrine activity involving NAD-dependent circadian steroidogenic activity governs age-associated meibomian gland dysfunction.](#)

Lena Sasaki, Yuki Hamada, Daisuke Yarimizu, Tomo Suzuki, Hiroki Nakamura, Aya Shimada, Khanh Tien Nguyen Pham, Xinyan Shao, Koki Yamamura, Tsutomu Inatomi, Hironobu Morinaga, Emi K Nishimura, Fujimi Kudo, Ichiro Manabe, Shogo Haraguchi, Yuki Sugiura, Makoto Suematsu, Shigeru Kinoshita, Mamiko Machida, Takeshi Nakajima, Hiroshi Kiyonari, Hitoshi Okamura, Yoshiaki Yamaguchi, Takahito Miyake, Masao Doi.

Nature Aging 2022 Feb; 2(2):105.

Application: IHC, Human, Human eyelid

- [A case of primary aldosteronism caused by unilateral multiple adrenocortical micronodules presenting as muscle cramps at rest: The importance of functional histopathology for identifying a culprit lesion.](#)

Ito A, Yamazaki Y, Sasano H, Matsubara D, Fukushima N, Tamba M, Tabata K, Ashizawa K, Takei A, Koizumi M, Sakuma Y, Sata N, Oshiro H.

Pathology International 2017 Apr; 67(4):214.

Application: IHC, Human, Human adrenocortical macronodules

- [Expression of steroidogenic enzymes and their transcription factors in cortisol-producing adrenocortical adenomas: immunohistochemical analysis and quantitative RT-PCR studies.](#)

Kubota F, Nakamura Y, Konosu-Fukaya S, Azmahani A, Ise K, Yamazaki Y, Kitawaki Y, Felizola SJ, Ono Y, Omata K, Morimoto R, Iwama N, Satoh F, Sasano H.

Human pathology 2016 Aug; 54:165.

Application: IHC, Human, Human adrenal glands

- [Steroidogenic enzymes, their related transcription factors and nuclear receptors in human sebaceous glands under normal and pathological conditions.](#)

Azmahani A, Nakamura Y, Felizola SJ, Ozawa Y, Ise K, Inoue T, McNamara KM, Doi M, Okamura H, Zouboulis CC, Aiba S, Sasano H.

The Journal of Steroid Biochemistry and Molecular Biology 2014 Oct; 144 Pt B:268.

Application: IHC, Human, Skin

- [Advances in the diagnosis of gestational trophoblastic tumors and tumor-like lesions.](#)

Mao TL, Shih IM.

Expert Opinion on Medical Diagnostics 2009 Jul; 3(4):371.

Application: IHC, Human, Placental site trophoblastic tumor

- [Chorangiocarcinoma: A Case Report and Review of the Literature.](#)

Ariel I, Boldes R, Weintraub A, Reinus C, Beller U, Arbel R.

International Journal of Gynecological Pathology 2009 May; 28(3):267.

Application: IHC, Human, Placenta

- [HSD3B1 as a novel trophoblast-associated marker that assists in the differential diagnosis of trophoblastic tumors and tumorlike lesions.](#)

Mao TL, Kurman RJ, Jeng YM, Huang W, Shih IM.

The American Journal of Surgical Pathology 2008 Feb; 32(2):236.

Application: IHC, WB-Ti, Human, Normal and tumor tissues, including kidney, liver, colon, stomach, spleen, thyroid, pancreas, placenta and carcinomas from ovary, lung, and tongue

- [Trophogram, an immunohistochemistry-based algorithmic approach, in the differential diagnosis of trophoblastic tumors and tumorlike lesions.](#)

Shih IM.

Annals of Diagnostic Pathology 2007 Jun; 11(3):228.

Application: IHC, Human, Human trophoblastic tumors

Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)

Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)

- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
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