

HSD3B1-A Novel Marker Specific for Trophoblastic Tissue

HSD3B1 monoclonal antibody

Cat. Num.: H00003283-M01

Clone: 3C11-D4

Isotype: IgG1

Host: Mouse

Size: 100ug

Gene description: hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid delta-isomerase 1

Gene alias: HSD3B, HSDB3

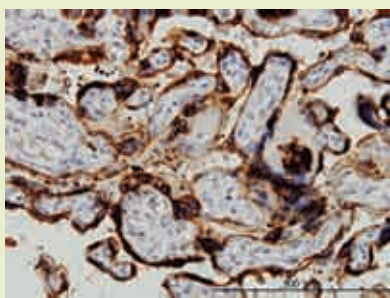
Gene pathway:

C21-Steroid hormone metabolism
Androgen and estrogen metabolism

HSD3B1 is an immunohistochemical marker for all trophoblastic tissues, including cytotrophoblast, syncytiotrophoblast, and intermediate trophoblast. It is a highly sensitive and specific histopathological marker for GTD (Gestational Trophoblastic Disease).

GTD is a collection of diseases derived from trophoblasts, which surround the embryo during gestation. GTD includes hydatidiform mole, invasive mole, choriocarcinoma and placental site trophoblastic tumor.

Application



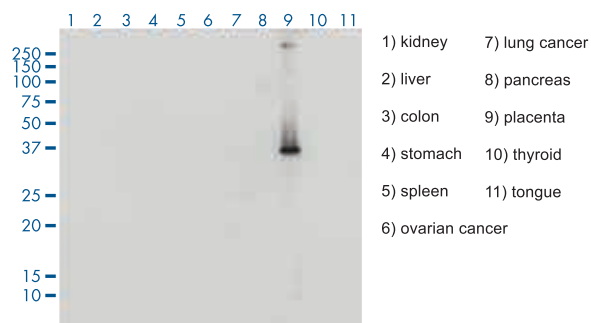
Immunohistochemistry

Immunoperoxidase of monoclonal antibody to HSD3B1 (H00003283-M01) on formalin-fixed paraffin-embedded human placenta

Capture ELISA

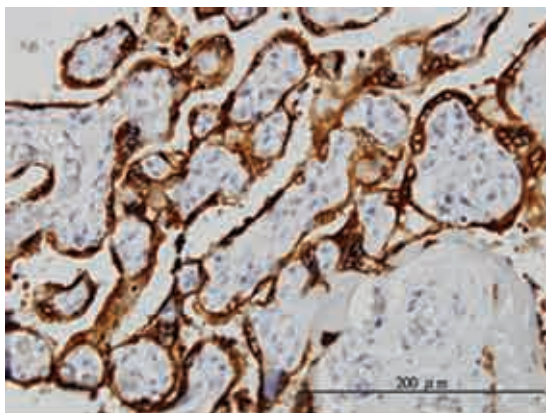
The detection limit for HSD3B1 antibody is approximately 10ng/ml.

Western Blot Analysis Against Human Tissue Lysates

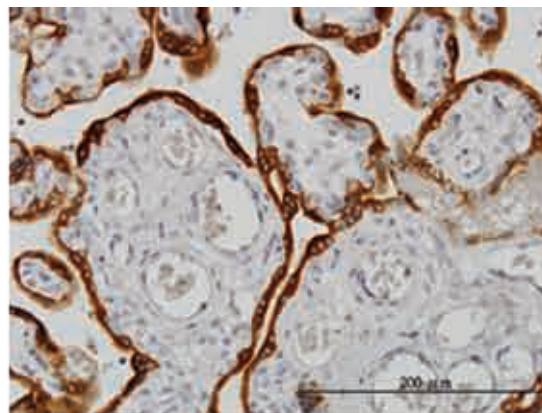


HSD3B1 IHC Photo Gallery

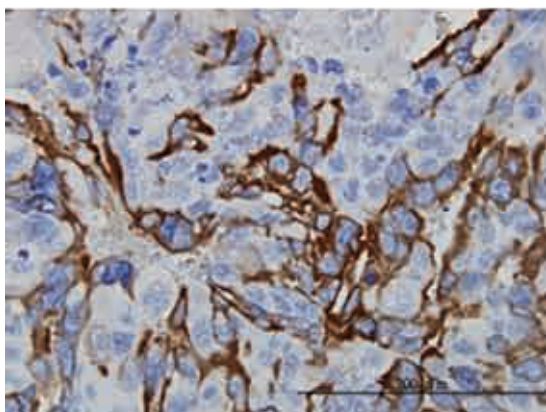
Immunohistochemical staining of various tissues with hematoxylin and HSD3B1 monoclonal antibody (H00003283-M01).



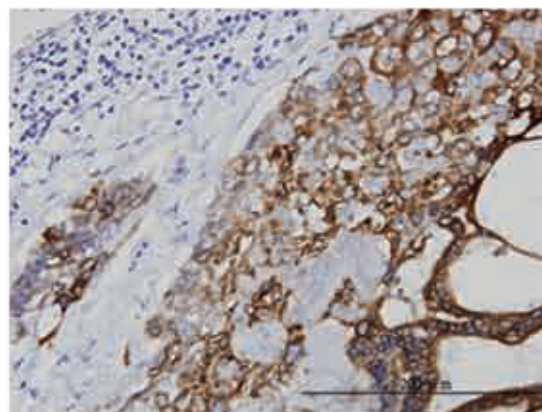
a placenta



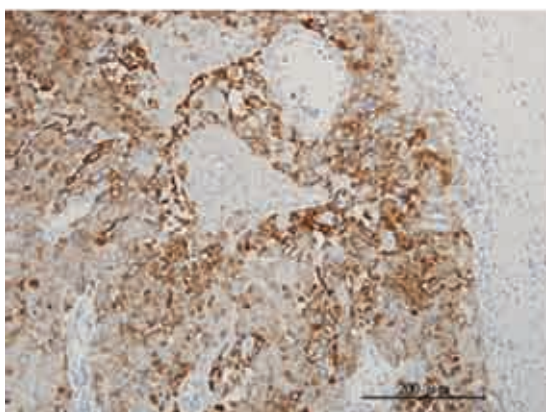
b placenta



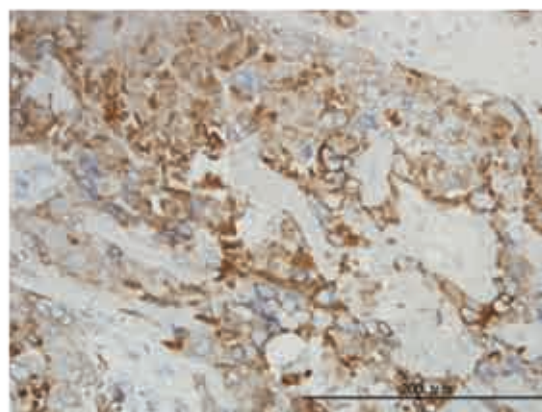
c choriocarcinoma



d choriocarcinoma



e epithelioid trophoblastic tumor



f epithelioid trophoblastic tumor

References

Trophogram, an immunohistochemistry-based algorithmic approach, in the differential diagnosis of trophoblastic tumors and tumorlike lesions.
Shih IeM. *Ann Diagn Pathol.* 2007 Jun;11(3):228-34.