abcam

Product datasheet

Anti-HSD17B1 antibody [EP1682Y] ab51045

Recombinant RabMAb

15 References 5 Images

Overview

Product name	Anti-HSD17B1 antibody [EP1682Y]
Description	Rabbit monoclonal [EP1682Y] to HSD17B1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IP, IHC-P **Unsuitable for:** ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human HSD17B1 (C terminal). The exact sequence is proprietary.
Positive control	WB: Human placenta lysate. IHC-P: Human placenta tissue. IP: Human placenta lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EP1682Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51045 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

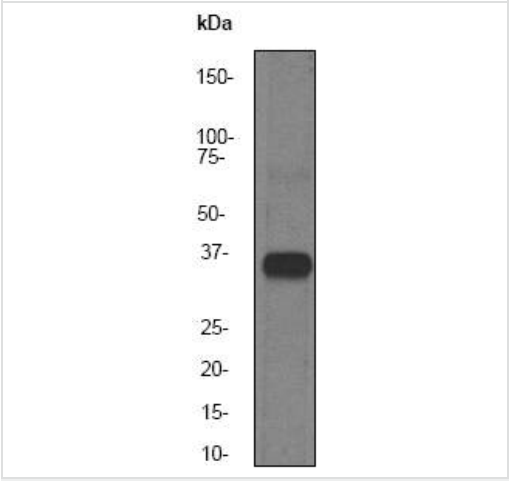
Application	Abreviews	Notes
Flow Cyt (Intra)		Use 1µg for 10^6 cells. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).
IP		1/50.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for ICC/IF.

Target

Function	Favors the reduction of estrogens and androgens. Also has 20-alpha-HSD activity. Uses preferentially NADH.
Pathway	Steroid biosynthesis; estrogen biosynthesis.
Sequence similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-HSD17B1 antibody [EP1682Y] (ab51045)

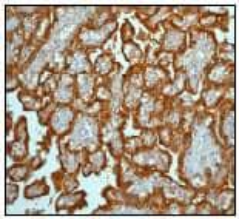
Anti-HSD17B1 antibody [EP1682Y] (ab51045) at 1/100000 dilution + Human placenta tissue lysate at 10 µg

Secondary

Goat anti-Rabbit HRP labeled at 1/2000 dilution

Predicted band size: 35 kDa

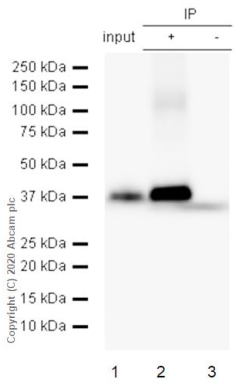
Observed band size: 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HSD17B1 antibody [EP1682Y] (ab51045)

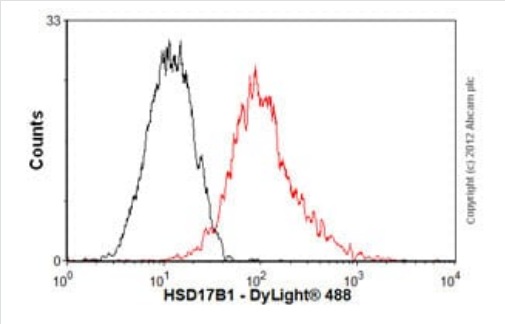
Ab51045 (1/100 dilution) staining human HSD17B1 in paraffin embedded human placenta tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-HSD17B1 antibody [EP1682Y] (ab51045)

Purified ab51045 at 1/50 dilution (2µg) immunoprecipitating HSD17B1 in Human placenta lysate.
Lane 1 (input): Human placenta lysate 10µg
Lane 2 (+): ab51045 + Human placenta lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab51045 in Human placenta lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 34 kDa



Flow Cytometry (Intracellular) - Anti-HSD17B1 antibody [EP1682Y] (ab51045)

Overlay histogram showing JEG3 cells stained with ab51045 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab51045, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

Anti-HSD17B1 antibody [EP1682Y] (ab51045)

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