

# HSD17B7 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6760a

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, FC, E              |
| Primary Accession | <a href="#">P56937</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB20463                |
| Calculated MW     | 38206                  |
| Antigen Region    | 57-85                  |

## Additional Information

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|                    |   |
|--------------------|---|
| Gene ID            | 51478   |
| Other Names        | 3-keto-steroid reductase, 17-beta-hydroxysteroid dehydrogenase 7, 17-beta-HSD 7, Estradiol 17-beta-dehydrogenase 7, HSD17B7   |
| Target/Specificity | This HSD17B7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 57-85 amino acids from the N-terminal region of human HSD17B7.                  |
| Dilution           | WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.  |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.   |
| Precautions        | HSD17B7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|----------|--|
| Name     | HSD17B7  |
| Synonyms | 17HSD7 {ECO:0000303 PubMed:12732193}, SD   |
| Function | Bifunctional enzyme involved in steroid-hormone metabolism and cholesterol biosynthesis (PubMed: <a href="#">11165030</a> , PubMed: <a href="#">12574203</a> , |

PubMed:[12732193](#), PubMed:[12829805](#), PubMed:[19772289](#), PubMed:[20659585](#)). Catalyzes the NADP(H)-dependent reduction of estrogens and androgens and regulates the biological potency of these steroids. Converts estrone (E1) to a more potent estrogen, 17beta-estradiol (E2) (PubMed:[12574203](#), PubMed:[12732193](#), PubMed:[19772289](#)). Converts dihydrotestosterone (DHT) to its inactive form 5a-androstane-3b,17b- diol (PubMed:[12574203](#), PubMed:[12732193](#), PubMed:[19772289](#)). Converts moderately progesterone to 3beta-hydroxypregn-4-ene-20-one, leading to its inactivation (PubMed:[12574203](#), PubMed:[12732193](#)). Additionally, participates in the post-squalene cholesterol biosynthesis, as a 3- ketosteroid reductase (PubMed:[11165030](#), PubMed:[12829805](#), PubMed:[20659585](#)).

#### Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein

#### Tissue Location

Highly expressed in adrenal gland, liver, lung and thymus. Expressed in breast, ovaries, pituitary gland, pregnant uterus, prostate, kidney, lymph node, small intestine, spinal cord and trachea Weakly expressed in all other tissues tested

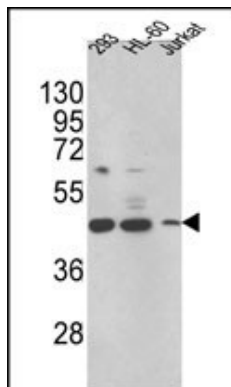
## Background

HSD17B7 oxidizes or reduces estrogens and androgens in mammals and regulates the biologic potency of these steroids.

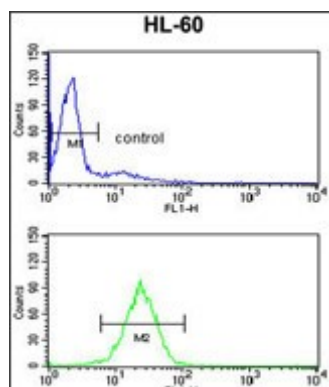
## References

Plourde,M., et.al.,J. Steroid Biochem. Mol. Biol. 116 (3-5), 134-153 (2009)

## Images



Western blot analysis of HSD17B7 Antibody (N-term) (Cat. #AP6760a) in 293,HL-60,Jurkat cell line lysates (35ug/lane). HSD17B7 (arrow) was detected using the purified Pab.(2ug/ml)



HSD17B7 Antibody (N-term) (Cat. #AP6760a) flow cytometry analysis of HL-60 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.