

Datasheet for ABIN701530
anti-CYP11A1 antibody (AA 321-420)

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Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | CYP11A1 |
| Binding Specificity: | AA 321-420 |
| Reactivity: | Human, Rat, Mouse, Cow |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CYP11A1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| | |
|-------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human CYP11A1/P450SCC |
| Isotype: | IgG |
| Cross-Reactivity: | Cow, Human, Mouse, Rat |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|--|
| Target: | CYP11A1 |
| Alternative Name: | CYP11A1 (CYP11A1 Products) |

Target Details

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|-------------|--|
| Background: | <p>Synonyms: CYP11A, CYPXIA1, P45SCC, Cholesterol side-chain cleavage enzyme, mitochondrial, Cholesterol desmolase, Cytochrome P45 11A1, Cytochrome P45(scc), CYP11A1</p> <p>Background: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide. [provided by RefSeq, Jul 2008]</p> |
| Gene ID: | 1583 |
| UniProt: | P05108 |
| Pathways: | Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process , Cellular Response to Molecule of Bacterial Origin |

Application Details

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|--------------------|---|
| Application Notes: | WB 1:300-5000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |

Handling

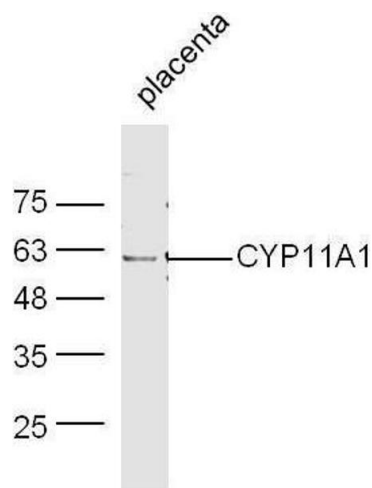
Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

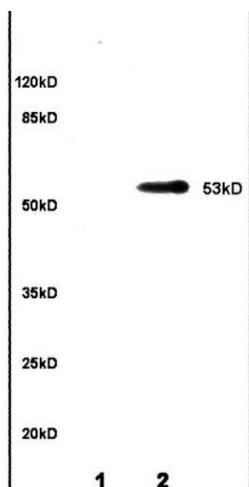
Publications

- Product cited in:
- Sagaradze, Basalova, Kirpatovsky, Ohobotov, Grigorieva, Balabanyan, Kamalov, Efimenko: "Application of rat cryptorchidism model for the evaluation of mesenchymal stromal cell secretome regenerative potential." in: **Biomedicine & pharmacotherapy**, Vol. 109, pp. 1428-1436, (2019) ([PubMed](#)).
- Ommati, Heidari, Jamshidzadeh, Zamiri, Sun, Sabouri, Wang, Ahmadi, Javanmard, Seifi, Mousapour, Yeganeh: "Dual effects of sulfasalazine on rat sperm characteristics, spermatogenesis, and steroidogenesis in two experimental models." in: **Toxicology letters**, Vol. 284, pp. 46-55, (2018) ([PubMed](#)).
- Medwid, Guan, Yang: "Prenatal exposure to bisphenol A disrupts adrenal steroidogenesis in adult mouse offspring." in: **Environmental toxicology and pharmacology**, Vol. 43, pp. 203-8, (2016) ([PubMed](#)).
- Mahata, Zhang, Kolodziejczyk, Proserpio, Haim-Vilmsky, Taylor, Hebenstreit, Dingler, Moignard, Göttgens, Arlt, McKenzie, Teichmann: "Single-cell RNA sequencing reveals T helper cells synthesizing steroids de novo to contribute to immune homeostasis." in: **Cell reports**, Vol. 7, Issue 4, pp. 1130-42, (2014) ([PubMed](#)).
- Hu, Dong, Chen, Lu, Han, Qiu, Chen, Qin, Li, Gu, Xia, Sun, Li, Wang: "Low-dose monobutyl phthalate stimulates steroidogenesis through steroidogenic acute regulatory protein regulated by SF-1, GATA-4 and C/EBP-beta in mouse Leydig tumor cells." in: **Reproductive biology and endocrinology : RB&E**, Vol. 11, pp. 72, (2013) ([PubMed](#)).



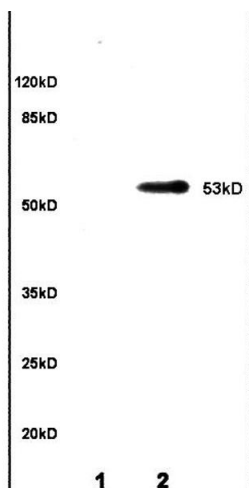
Western Blotting

Image 1. Mouse placenta lysates probed with Rabbit Anti-CYP11A1 Polyclonal Antibody, Unconjugated at 1:500 for 90 min at 37°C.



SDS-PAGE

Image 2. Lane 1: rat brain lysates Lane 2: rat kidney lysates probed with Anti CYP11A1/P450SCC Polyclonal Antibody, Unconjugated (ABIN701530) at 1:200 in 4°C. Followed by conjugation to secondary antibody at 1:3000 90min in 37°C. Predicted band 53kD. Observed band size: 53kD.



SDS-PAGE

Image 3. Lane 1: rat brain lysates Lane 2: rat kidney lysates probed with Anti CYP11A1 P450SCC Polyclonal Antibody, unconjugated (ABIN701530) at 1:200 in 4 °C Followed by conjugation to secondary antibody (ABIN727474-HRP) at 1:3000 90min in 37 °C Predicted band 53kD. Observed band size: 53kD.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN701530.