# CYP4F12 (h2): 293T Lysate: sc-175639



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## **BACKGROUND**

Cytochrome P450 proteins are heme-thiolate monooxygenases that mediate NADPH-dependent electron transport and function to oxidize a variety of structurally unrelated compounds, including steroids, fatty acids and xenobiotics. Specifically, cytochrome P450s are responsible for metabolizing arachidonic acid to hydroxyeicosatetraenoic acid (a regulator of blood pressure) and epoxyeicosatrienoic acid (a molecule involved in signaling events). CYP4F12 (cytochrome P450, family 4, subfamily F, polypeptide 12) is a 524 amino acid multi-pass membrane protein that localizes to both the microsome and the endoplasmic reticulum and is expressed in heart, liver, colon and small intestine. Using heme as a cofactor, CYP4F12 functions to catalyze leukotriene B4 omega-hydroxylation and arachidonic acid  $\omega$ -hydroxylation, as well as the hydroxylation of ebastine, an antihistamine.

## **REFERENCES**

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# **CHROMOSOMAL LOCATION**

Genetic locus: CYP4F12 (human) mapping to 19p13.12.

#### **PRODUCT**

CYP4F12 (h): 293T Lysate represents a lysate of human CYP4F12 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **APPLICATIONS**

CYP4F12 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CYP4F12 antibodies. Recommended use:  $10-20~\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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