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anti-CYP3A4 antibody



2

Publications



Go to Product page

Overview

Quantity:	0.1 mg
Target:	CYP3A4
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CYP3A4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Immunogen:	Purified recombinant fragment of human CYP3A4 expressed in E. coli.
Clone:	3H8
Isotype:	lgG1
Purification:	purified

Target Details

Target:	CYP3A4
Alternative Name:	CYP3A4 (CYP3A4 Products)
Background:	Description: This gene encodes a member of the cytochrome P450 superfamily of enzymes.
	The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in
	drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes

to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist, however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms have been identified.

Aliases: HLP, CP33, CP34, CYP3A, NF-25, CYP3A3, P450C3, CYPIIIA3, CYPIIIA4, P450PCN1

Molecular Weight: 57.3 kDa

Gene ID: 1576

HGNC: 1576

Pathways: Steroid Hormone Biosynthesis

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

Handling

Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

should be handled by trained staff only.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

Publications

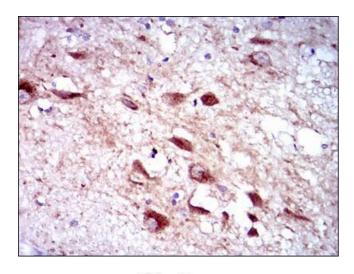
Product cited in:

Mishra, Thakur, Somal, Parmar, Yadav, Bharati, Bharti, Paul, Verma, Chouhan, Sharma, Singh, González, DOcchio, Sarkar et al.: "Expression and localization of angiopoietin family in buffalo ovarian follicles during different stages of development and modulatory role of angiopoietins on

steroidogenesis and survival of cultured ..." in: **Theriogenology**, Vol. 86, Issue 7, pp. 1818-33, (2016) (PubMed).

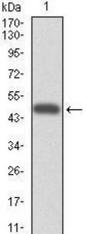
Mishra, Parmar, Yadav, Reshma, Bharati, Bharti, Paul, Chouhan, Taru Sharma, Singh, Sarkar et al.: "Expression and localization of angiopoietin family in corpus luteum during different stages of oestrous cycle and modulatory role of angiopoietins on steroidogenesis, angiogenesis and survivability ..." in: **Reproduction in domestic animals = Zuchthygiene**, Vol. 51, Issue 6, pp. 855-869, (2016) (PubMed).

Images



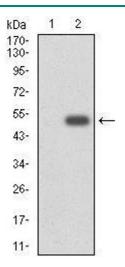
Immunohistochemistry

Image 1. Immunohistochemical analysis of paraffinembedded human brain tissues using CYP3A4 mouse mAb with DAB staining.



Western Blotting

Image 2. Western blot analysis using CYP3A4 mAb against human CYP3A4 (AA: 243-430) recombinant protein. (Expected MW is 47.5 kDa)



Western Blotting

Image 3. Western blot analysis using CYP3A4 mAb against HEK293 (1) and CYP3A4 (AA: 243-430)-hlgGFc transfected HEK293 (2) cell lysate.

Please check the product details page for more images. Overall 7 images are available for ABIN969512.