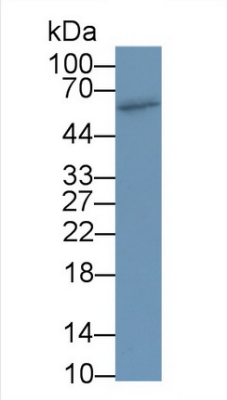
Cytochrome P450 3a2 (CYP3A2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cytochrome P450 3A2 (CYP3A2), Polyclonal Antibody
Full Product Name	Polyclonal Antibody to Cytochrome P450 3A2 (CYP3A2)
Product Gene Name	anti-CYP3A2 antibody
Product Synonym Names	CYP3A2/Cytochrome P450 3A2; CYPIIIA2; Cytochrome P450/6betaA; Testosterone 6betahydroxylase; Cytochrome P450PCN2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Rat
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Affinity Chromatography
Concentration	500ug/mL (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against CYP3A2. It has been selected for its ability to recognize CYP3A2 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) APC-CY7 Conjugated Antibody: CYP3A2 (MBS2132410)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) PE Conjugated Antibody: CYP3A2 (MBS2132411)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) APC Conjugated Antibody: CYP3A2 (MBS2132412)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) Cy3 Conjugated Antibody: CYP3A2 (MBS2132413)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) Biotin Conjugated Antibody: CYP3A2 (MBS2132414)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) FITC Conjugated Antibody: CYP3A2 (MBS2132415)
Matching Pairs	Unconjugated Antibody: CYP3A2 (MBS2139571) HRP Conjugated Antibody: CYP3A2 (MBS2132416)
Molecular Weight	57,732 Da
3D Structure	ModBase 3D Structure for P05183
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Met1~Asn280

Conjugation	Unconjugated
Product Categories/Family for anti-CYP3A2 antibody	Human gene deletion; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CYP3A2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-CYP3A2 antibody	Western blottin:g: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-CYP3A2 antibody	MBS2139571 is an antibody targeting CYP3A2. Also known as Polyclonal Antibody to Cytochrome P450 3A2 (CYP3A2). Reactive in Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CYP3A2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CYP3A2 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP3A2. It may not necessarily be applicable to this product.

NCBI GI #	6166033
NCBI GeneID	266682
NCBI Accession #	P05183.2
UniProt Primary Accession #	P05183
UniProt Secondary Accession #	Q5FVU5; Q64629; Q64672
UniProt Related Accession #	P05183
NCBI Official Full Name	Cytochrome P450 3A2
NCBI Official Synonym Full Names	cytochrome P450, family 3, subfamily a, polypeptide 2
NCBI Official Symbol	Cyp3a2
NCBI Official Synonym Symbols	Cyp3a11
UniProt Protein Name	Cytochrome P450 3A2
UniProt Synonym Protein Names	CYPIIIA2; Cytochrome P450-PCN2; Cytochrome P450/6-beta-A; Testosterone 6-beta-hydroxylase
Protein Family	Cytochrome
UniProt Gene Name	Cyp3a2

UniProt Synonym Gene Names	Cyp3a-2; Cyp3a11
UniProt Entry Name	CP3A2_RAT
NCBI Protein Information	cytochrome P450 3A2
NCBI Summary for CYP3A2	catalyzes the conversion of testosterone to 6-beta-hydroxytestosterone [RGD, Feb 2006]
UniProt Comments for CYP3A2	CYP3A4: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It performs a variety of oxidation reactions (e.g. caffeine 8-oxidation, omeprazole sulphoxidation, midazolam 1'-hydroxylation and midazolam 4- hydroxylation) of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Acts as a 1,8-cineole 2- exo-monooxygenase. The enzyme also hydroxylates etoposide. Belongs to the cytochrome P450 family. Protein type: Oxidoreductase; Endoplasmic reticulum; Membrane protein, peripheral; Cell surface; Demethylase; Xenobiotic Metabolism - metabolism by cytochrome P450; Cofactor and Vitamin Metabolism - retinol; Lipid Metabolism - linoleic acid; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Membrane protein, integral; EC 1.14.14.1; Xenobiotic Metabolism - drug metabolism - other enzymes Cellular Component: endoplasmic reticulum membrane; cytoplasm Molecular Function: enzyme binding; iron ion binding; heme binding; oxidoreductase activity; steroid hydroxylase activity; monooxygenase activity; steroid binding; demethylase activity; testosterone 6-beta-hydroxylase activity; vitamin D3 25-hydroxylase activity Biological Process: steroid metabolic process; drug catabolic process; exogenous drug catabolic process; monoterpenoid metabolic process; alkaloid catabolic process; heterocycle metabolic process; drug metabolic process; steroid catabolic process
Research Articles on CYP3A2	**1.** Schizonepetin had significant induction effects on CYP3A1/2 and inhibition effects on CYP1A2, CYP2E1 or CYP2D6 as oriented from the pharmacokinetic profiles of the substrates.
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