CYP2E1 Recombinant Rabbit Monoclonal Antibody (JM10-85)

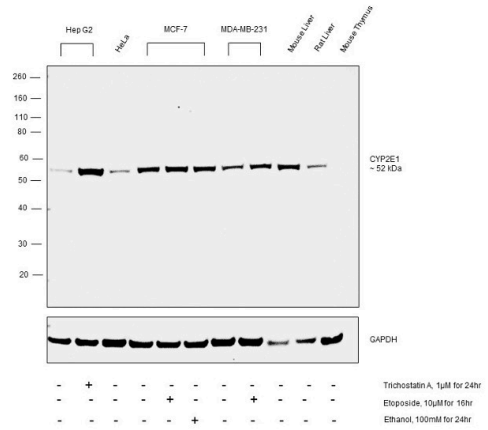
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	JM10-85
Conjugate	Unconjugated
Immunogen	Synthetic peptide within Human CYP2E1 aa 71-114
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2809882

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1:50-1:200	-

Product Specific Information

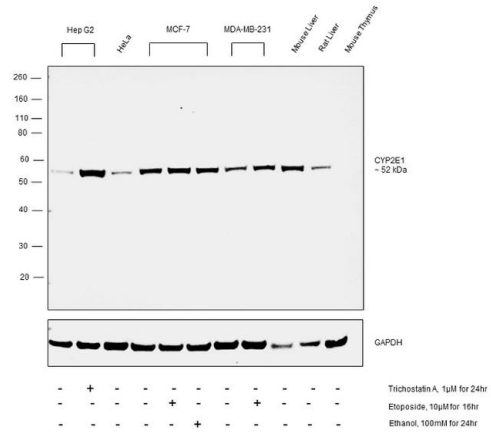
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For CYP2E1 Recombinant Rabbit Monoclonal Antibody (JM10-85)



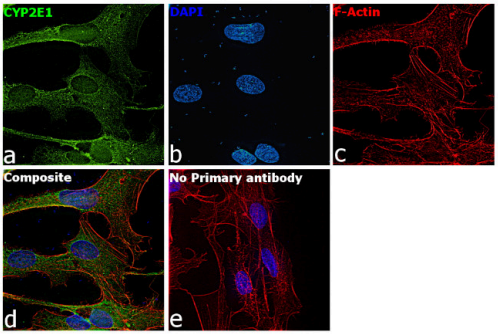
CYP2E1 Antibody (MA5-32605)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue tested owing to their inherent genetic constitution. Relative expression of CYP2E1 was observed in Mouse and Rat Liver in comparison to Mouse Thymus using Anti-CYP2E1 Monoclonal Antibody (Product # MA5-32605) in Western Blot. {RE}



CYP2E1 Antibody (MA5-32605) in WB

Western blot was performed using Anti-CYP2E1 Monoclonal Antibody (Product # MA5-32605) and a ~52kDa band corresponding to CYP2E1 was observed across cell lines and in Mouse and Rat Liver tissues except Mouse Thymus. Membrane enriched extracts (30 µg) of Hep G2 (Lane1), Hep G2 treated with Trichostatin (1µM for 24hr) (Lane 2), HeLa (Lane 3), MCF-7 (Lane 4), MCF-7 treated with Etoposide (10µM for 16hr) (Lane 5), MCF-7 treated with Ethanol (100mM for 24hr) (Lane 6), MDA-MB-231 (Lane 7), MDA-MB-231 treated with Etoposide (10µM for 16hr) (Lane 8), tissue extracts (30 µg) of Mouse Liver (Lane 9), Rat Liver (Lane 10) and Mouse Thymus (Lane 11) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:2500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



CYP2E1 Antibody (MA5-32605) in ICC/IF

Immunofluorescence analysis of CYP2E1 was performed using 70% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. Hep G2 cells were labeled with CYP2E1 Monoclonal Antibody (Product # MA5-32605) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing ER and mitochondrial membrane localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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