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[Primary Antibody]

Rabbit Anti-FMO2 antibody

Catalog Number: SL16153R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FMO2
Immunogen:	KLH conjugated synthetic peptide derived from human FMO2: 51-150/471
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Cow, Horse, Rabbit, Sheep, Chimpanzee)
Predicted MW.:	53kDa
Subcellular Location:	cytoplasmic
Background:	The flavin-containing monooxygenases are NADPH-dependent enzymes that catalyze the oxidation of many drugs and xenobiotics. In most mammals, there is a flavin-containing monooxygenase that catalyzes the N-oxidation of some primary alkylamines through an N-hydroxylamine intermediate. However, in some human populations, this enzyme is truncated and likely degraded rapidly. The protein encoded by this gene represents the truncated form and apparently has no catalytic activity. A functional allele found in African Americans has been reported, but no sequence evidence has been deposited to support the finding. This gene is found in a cluster with the FMO1, FMO3, and FMO4 genes on chromosome 1. [provided by RefSeq, Jun 2013] **Function:** Catalyzes the N-oxidation of certain primary alkylamines to their

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	oximes via an N-hydroxylamine intermediate. Inactive toward certain tertiary amines, such as imipramine or chloropromazine. Can catalyze the S-oxidation of methimazole. The truncated form is catalytically inactive. **Subcellular Location:** Microsome membrane. Endoplasmic reticulum membrane. **Tissue Specificity:** Expressed in lung (at protein level). Expressed predominantly in lung, and at a much lesser extent in kidney. Also expressed in fetal lung, but not in liver, kidney and brain. **Post-translational modifications:** The truncated form is probably unable to fold correctly and is rapidly degraded. FMO2*1 is sumoylated at 'Lys-492'. **Similarity:** Belongs to the FMO family. **Database links:** **Entrez Gene:** 2327 Human **Entrez Gene:** 55990 Mouse **Entrez Gene:** 100171693 Orangutan **Entrez Gene:** 703639 Rhesus monkey Omim: 603955 Human **SwissProt:** Q8HZ70 Chimpanzee **SwissProt:** Q8HZ69 Gorilla **SwissProt:** P36366 Guinea pig **SwissProt:** Q99518 Human **SwissProt:** Q8K2I3 Mouse **SwissProt:** Q5REK0 Orangutan **SwissProt:** Q28505 Rhesus monkey **Unigene:** 144912 Human **Unigene:** 10929 Mouse

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