**Product name(s):** Rabbit polyclonal antiserum to rat cytochrome P450 3A2 (CYP3A2)

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**Background:**

The cytochrome P450 superfamily of heme-thiolate mono-oxygenases play a key role in the oxidative metabolism of many endogenous and exogenous molecules. It is an ancient superfamily, which has been identified in prokaryotes and in many types of eukaryotic cells.

**Cytochrome P450 3 family, (CYP3)**

Members of the CYP3A sub-family catalyse the 6β-hydroxylation of testosterone, and the metabolism of a number of drugs such as ciclosporin A and warfarin. They are inducible by glucocorticoids such as dexamethasone and by macrolide antibiotics such as erythromycin and pregnenolone 16α-carbonitrile (PCN).

Rat CYP3A1 and CYP3A2 share 89% sequence similarity at the amino acid level and are predominantly located in the liver, principally in the centrilobular region. PCN induces CYP3A1 gene expression in regions of the intestine, lung and kidney.

**Product Information:**

The antiserum, raised in New Zealand White rabbits was raised to a synthetic hexapeptide which included the C-terminal of rat CYP3A2, and which was conjugated to keyhole limpet haemocyanin using a maleimido linkage.

**Application data**

The antiserum detects rat CYP3A2 in Western blotting (58 kDa), and immunohistochemical applications at dilutions up to 1:2000 on PCN-stimulated rat liver and microsomal preparations of liver when sensitive detection techniques are used. Note: Not suitable for human studies.

*Such as enhanced chemiluminescence (ECL; Amersham) for Western blotting applications, and ABC-Elite (Vector Laboratories) for immunohistochemistry. The use of 2-4% neutral-buffered formaldehyde or methacarn fixation is recommended. Frozen sections are recommended, but de-waxed tissue sections have also been used satisfactorily. Antigen retrieval techniques may enhance signal generation.*

**Storage and use:**

Store unopened vial at -20°C until required for use. AVOID REPEATED FREEZE-THAW CYCLES. Aliquot undiluted antibody into smaller volumes prior to freezing if appropriate. Store diluted antibody at 2-4°C and use within 1 month.

Dilute to working strength with 50mM Tris-HCl buffer (pH 7.6) containing 1.5% sodium chloride and 1% normal goat serum (if a goat antiserum is to be used).

**References:**