

## Mouse Monoclonal Antibody to CYP1A1

**Catalogue Number** sAP-0662

**Target Molecule** **Name:** CYP1A1

**Aliases:** AHH; AHRR; CP11; CYP1; P1-450; P450-C; P450DX

**MW:** 58kDa

**Entrez Gene ID: 1543**

**Description** This gene, CYP1A1, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which 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 some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15.

**Immunogen** Purified recombinant fragment of human CYP1A1 expressed in E. Coli. ;

**Reactive Species** Human

**Clone** MM6G5;

**Size and Concentration** 100µg/1mg/ml

**Supplied as** Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide

**Reconstitution/Storages** Reconstituted with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage

**Applications** ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000

**Shipping** Regular FEDEX overnight shipment (ambient temperature)

**Reference** 1. Cancer Res. 2009 Apr 1;69(7):2956-65. ; 2. Drug Metab Lett. 2009 Jan;3(1):18-27. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**