# Anti-Cytochrome P450 1A1 + 1A2 antibody [C10-7] ab37130

## Overview

**Product name**  
Anti-Cytochrome P450 1A1 + 1A2 antibody [C10-7]

**Description**  
Mouse monoclonal [C10-7] to Cytochrome P450 1A1 + 1A2

**Host species**  
Mouse

**Tested applications**  
Suitable for: ELISA, WB, IHC-P

**Species reactivity**  
Reacts with: Rainbow trout

**Immunogen**  
Synthetic peptide corresponding to Cytochrome P450 1A1 + 1A2 aa 277-294.

**Sequence:**  
SYDKDNIRDITDSLIDHC

**Positive control**  
Liver microsomes from beta naphthoflavone treated (BNF) or tetrachlorodibenzo-p-dioxin (TCDD) treated fish.

## Properties

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**  
pH: 7.40  
Preservative: 0.08% Sodium azide  
Constituents: 1.64% Sodium phosphate, 0.87% Sodium chloride, 1% BSA

**Purity**  
Protein A purified

**Clonality**  
Monoclonal

**Clone number**  
C10-7

**Isotype**  
IgG3

**Light chain type**  
kappa

## Applications

Our Abpromise guarantee covers the use of ab37130 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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**Application notes**

ELISA: 1/300 - 1/1000.
IHC-P: Use at an assay dependent dilution. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol (see references).

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

**Target**

**Relevance**

Cytochrome P450 oxidase (commonly abbreviated CYP) is a generic term for a large number of related, but distinct, oxidative enzymes important in vertebrate physiology. The cytochrome P450 mixed-function monooxygenase system is probably the most important element of Phase I metabolism in mammals. P450s are membrane-bound, either in the inner membrane of mitochondria or in the endoplasmic reticulum of cells where they metabolise thousands of endogenous and exogenous compounds. In the liver, these substrates include toxins, drugs, and other unneeded and potentially harmful molecules. Humans have 18 families of cytochrome P450 genes and 43 subfamilies; the CYP1 family is involved in drug metabolism and includes 3 subfamilies, 3 genes and 1 pseudogene.

**Cellular localization**

Endoplasmic reticulum

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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