

Product datasheet

Anti-Cytochrome P450 2B1 + 2B2 antibody [b/e3 (9.14)]
ab22719

1 Image

Overview

Product name	Anti-Cytochrome P450 2B1 + 2B2 antibody [b/e3 (9.14)]
Description	Mouse monoclonal [b/e3 (9.14)] to Cytochrome P450 2B1 + 2B2
Host species	Mouse
Specificity	This product does not react with Rat CYP 1A1, 1A2, 2A1, 2C6, 2C7, 2C11, 4A2 and 4A3
Tested applications	Suitable for: ELISA, WB, IP
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Rat liver cytochrome P450 2B1 and 2B2.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS Buffer: PBS
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	b/e3 (9.14)
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab22719** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 56 kDa.
IP		Use a concentration of 5 µg/ml.

Target

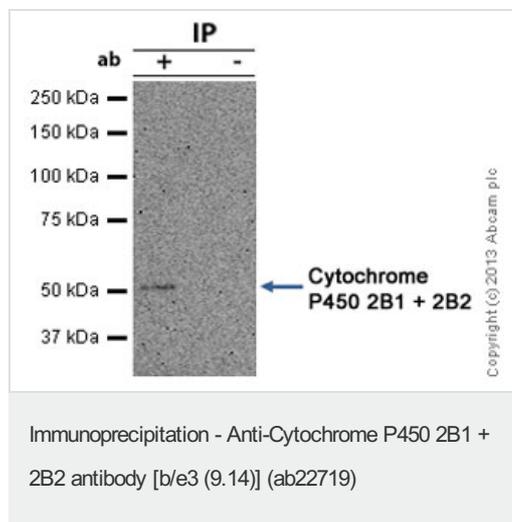
Relevance

The Cytochrome P450 superfamily of enzymes is one of three enzyme systems which metabolize the fatty acid arachadonic acid (AA) to regulators of vascular tone. P450 enzymes are monooxygenase enzymes which require several co-factors such as nicotinamide adenine dinucleotide phosphate (NADPH) and P450 reductase. There are over 200 known genes which encode P450s. Epoxygenases are those P450s which metabolize AA to epoxyeicosatrienoic acid (EETs) and omega-hydroxylases are those P450s which produce 19- and 20-hydroxyeicosatetraenoic acids (19- and 20-HETE). As well as fatty acid metabolism, P450s also metabolize many drugs and toxins. Cytochrome P450 3A4 is abundantly expressed in liver and small intestine and is inducible by barbiturates, glucocorticoids and rifampicin.

Cellular localization

Membrane bound, endoplasmic reticulum

Images



Cytochrome P450 2B1 + 2B2 was immunoprecipitated using 0.5mg Mouse Liver tissue, 5µg of Mouse monoclonal to Cytochrome P450 2B1 + 2B2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Liver tissue lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab22719.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/20,000 dilution.

Band: 56kDa; Cytochrome P450 2B1 + 2B2

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