

Mouse anti-cod CYP1A Monoclonal antibody, NP-7

General description

This product consists of affinity-purified mouse monoclonal antibodies against cytochrome P450 1A (CYP1A) from Atlantic cod (*Gadus morhua*).

Immunogen source: Cytochrome P450 1A purified from liver microsomes of β -naphthoflavone treated Atlantic cod (*Gadus morhua*).

Subclass/isotype: IgG₁-kappa.

Specificity

The monoclonal antibody NP-7 binds with high affinity to CYP1A in liver samples from Atlantic cod (*Gadus morhua*). The antibody also cross-reacts with CYP1A from a variety of different fish species, including rainbow trout (*Oncorhynchus mykiss*), Atlantic salmon (*Salmo salar*), carp (*Cyprinus carpio*) and turbot (*Scophthalmus maximus*). The degree of cross-reactivity differs between species and with the methods employed.

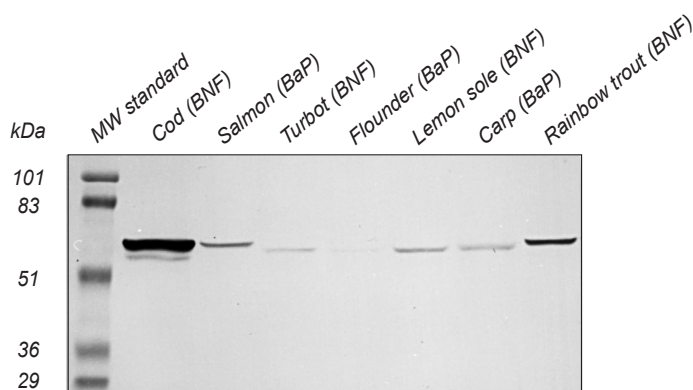
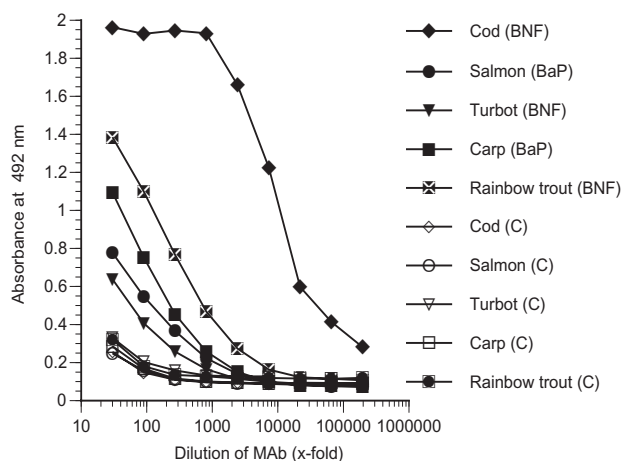
Applications

The monoclonal antibody NP-7 works well in both ELISA and western blot for a number of species. Since assay conditions vary, the optimum dilution should be determined for each particular application. *Note:* The antibody is dissolved in a buffer containing BSA, and is therefore not recommended to use for coating.

Normal dilution range:

ELISA: 1:50 - 1:1000

Western blot: 1:50 - 1:1000



ELISA

Coating: Liver microsomes (10-100 μ g protein/ml) from β -naphthoflavone treated (BNF), benzo(a)pyrene treated (BaP) or control (C) fish.

Primary antibody: NP-7

Western blot

Samples: Liver microsomes (10 μ g protein/well) from β -naphthoflavone treated (BNF) or benzo(a)pyrene treated (BaP) fish.

Primary antibody: NP-7 diluted 1:100